CPC COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

HEALTH; AMUSEMENT

A61 MEDICAL OR VETERINARY SCIENCE; HYGIENE

A61B DIAGNOSIS; SURGERY; IDENTIFICATION (analysing biological material <u>G01N</u>, e.g. <u>G01N 33/48</u>; obtaining records using waves other than optical waves, in general <u>G03B 42/00</u>)

NOTE

This subclass <u>covers</u> instruments, implements and processes for diagnostic, surgical and person-identification purposes, including obstetrics, instruments for cutting corns, vaccination instruments, finger-printing, psycho-physical tests.

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

A61B 17/03	covered by	<u>A61B 17/00</u>
A61B 17/125	covered by	<u>A61B 17/122</u>
A61B 17/138	covered by	<u>A61B 17/12</u>
A61B 17/76	covered by	<u>A61B 17/744</u>
A61B 17/78	covered by	<u>A61B 17/744</u>
A61B 17/94	covered by	<u>A61B 17/29</u>

2. {In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.}

1/00039 . . {provided with input arrangements for the user}

Diagnosis; Psycho-physical tests

1/00	Instruments for performing medical exeminations	1/0004 { for electronic operation }
1/00	Instruments for performing medical examinations of the interior of cavities or tubes of the body	1/00042 {for mechanical operation}
	by visual or photographical inspection, e.g.	1/00043 {provided with output arrangements}
	endoscopes (examination of body cavities or body	1/00045 {Display arrangement}
	tracts using ultrasonic, sonic or infrasonic waves	1/00048 {Constructional features of the display}
	<u>A61B 8/12;</u> endoscopic instruments for taking cell	1/0005 {combining images e.g. side-by-side,
	samples or for biopsy A61B 10/04; for surgical	superimposed or tiled}
	purposes A61B 17/00; endoscopic surgical {cutting}	1/00052 { positioned at proximal end of the endoscope
	instruments {A61B 17/32}; surgical instruments	body}
	using a laser beam being directed along or through	1/00055 { for alerting the user }
	a flexible conduit <u>A61B 18/22</u>); Illuminating	1/00057 {provided with means for testing or calibration}
	arrangements therefor (for the eyes <u>A61B 3/00</u>)	$1/00059$ {provided with identification means for the
1/00002	• {Operational features of endoscopes}	endoscope }
1/00004	• • {characterised by electronic signal processing}	$1/00062$ {provided with means for preventing overuse}
1/00006	• • • {of control signals}	1/00064 • {Constructional details of the endoscope body}
1/00009	• • • {of image signals during a use of endoscope}	1/00066 {Proximal part of endoscope body, e.g. handles
1/00009	4 {extracting biological structures}	(<u>A61B 1/0052</u> takes precedence)}
1/00009	5 {for image enhancement}	1/00068 {Valve switch arrangements}
1/00009	6 {using artificial intelligence}	1/00071 {Insertion part of the endoscope body
1/00011	• • {characterised by signal transmission}	(<u>A61B 1/0055</u> takes precedence)}
1/00013	• • • {using optical means}	1/00073 {with externally grooved shaft}
1/00016	• • • {using wireless means}	1/00075 {with externally roughened shaft}
1/00018	• • • {using electrical cables}	1/00078 {with stiffening means}
1/0002	• • {provided with data storages}	1/0008 {characterised by distal tip features}
1/00022	• • • {removable}	1/00082 {Balloons}
1/00025	• {characterised by power management}	1/00085 {Baskets}
1/00027	• • {characterised by power supply}	1/00087 {Tools (<u>A61B 17/00234</u> takes precedence)}
1/00029	• • • {externally powered, e.g. wireless}	1/00089 {Hoods}
	{internally powered}	1/00091 {Nozzles}
	{rechargeable}	1/00094 {Suction openings}
	• • {Means for power saving, e.g. sleeping mode}	1/00096 {Optical elements}
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1/00007	
1/00097	
1/00098	
1/00101	• • • {the distal tip features being detachable}
	• • {designed for single use}
	• • {characterised by modular construction}
1/00108	stand-alone use}
1/0011	• {Manufacturing of endoscope parts}
1/00112	• {Connection or coupling means}
1/00114	• {Electrical cables in or with an endoscope}
1/00117	• • {Optical cables in or with an endoscope}
1/00119	• {Tubes or pipes in or with an endoscope}
1/00121	• • {Connectors, fasteners and adapters, e.g. on the
1/00104	endoscope handle }
1/00124	• • {electrical, e.g. electrical plug-and-socket connection}
1/00126	,
1/00120	
	 Accessories for endoscopes}
	 {Accessories for endoscopes} {Drive units for endoscopic tools inserted through
1/00155	or with the endoscope}
1/00135	• {Oversleeves mounted on the endoscope prior to
1/00155	insertion}
1/00137	• {End pieces at either end of the endoscope, e.g.
1/00107	caps, seals or forceps plugs}
1/0014	• {Fastening element for attaching accessories to
	the outside of an endoscope, e.g. clips, clamps or
	bands}
1/00142	
	using a sanitary sheath}
1/00144	• • {Hygienic packaging}
1/00147	• {Holding or positioning arrangements}
1/00148	• • {using anchoring means}
1/00149	• • {using articulated arms}
1/00151	• • {using everted tubes}
1/00154	• • {using guiding arrangements for insertion}
1/00156	
1/00158	• • {using magnetic field}
1/0016	• • {using motor drive units}
1/00163	• {Optical arrangements (<u>A61B 1/002</u> , <u>A61B 1/06</u>
	take precedence)}
1/00165	• {with light-conductive means, e.g. fibre optics
1/001/7	(<u>A61B 1/07</u> takes precedence)}
1/00167	• • {Details of optical fibre bundles, e.g. shape or fibre distribution}
1/0017	• • {Details of single optical fibres, e.g. material or
1/0017	cladding}
1/00172	• {with means for scanning}
1/00172	
1/00174	
1/00179	
1/00181	 for multiple fixed viewing angles
1, 50101	(A61B 1/00193 takes precedence)}
1/00183	
1/00186	
1/00188	
1/0019	 . {characterised by variable lenses}
1/00193	· · · · · · · · · · · · · · · · · · ·
1/00194	
1/00195	
1/00197	 . {characterised by multiple eyepieces}
1/002	• having rod-lens arrangements (A61B 1/055 takes
	precedence)

1/005	• Flexible endoscopes
1/0051	• • {with controlled bending of insertion part}
1/0052	• • {Constructional details of control elements, e.g. handles}
1/0053	• • • {using distributed actuators, e.g. artificial muscles}
1/0055	• • • {Constructional details of insertion parts, e.g. vertebral elements}
1/0056	•••• {the insertion parts being asymmetric, e.g. for unilateral bending mechanisms}
1/0057	• • • {Constructional details of force transmission elements, e.g. control wires}
1/0058	• • {using shape-memory elements}
1/008	Articulations
1/009	• • {with bending or curvature detection of the insertion part}
1/01	Guiding arrangements therefore
1/012	 characterised by internal passages or accessories therefor
1/0125	• • {Endoscope within endoscope}
1/015	• • Control of fluid supply or evacuation
1/018	• for receiving instruments
1/04	• combined with photographic or television
	appliances
1/041	• • {Capsule endoscopes for imaging}
1/042	• {characterised by a proximal camera, e.g. a CCD
1/012	camera}
1/043	• • {for fluorescence imaging}
1/044	• • {for absorption imaging}
1/045	Control thereof
1/046	• {for infrared imaging}
1/05	 characterised by the image sensor, e.g. camera,
1/05	being in the distal end portion
1/051	• • {Details of CCD assembly}
1/053	 {being detachable}
1/055	having rod-lens arrangements
1/055	 with illuminating arrangements
1/0605	 . {for spatially modulated illumination}
1/0603	. {for annular illumination}
1/0615	. {for radial illumination}
1/0623	
1/0625	
1/0627 1/063	 . {for variable illumination angles} . {for monochromatic or narrow-band
1/005	illumination }
1/0638	 . {providing two or more wavelengths}
1/0646	 {providing two of more wavelengins} {with illumination filters}
1/0640	 {with multimation mers} {with wavelength conversion}
	· · · · · · · · · · · · · · · · · · ·
1/0655	Control therefor
1/0661	• {Endoscope light sources}
1/0669	• • {at proximal end of an endoscope}
1/0676	• • {at distal tip of an endoscope}
1/0684	• • • {using light emitting diodes [LED]}
1/0692	• • {head mounted}
1/07	• using light-conductive means, e.g. optical fibres
1/12	• with cooling or rinsing arrangements
1/121	• • {provided with means for cleaning post-use}
1/122	• • • {using cleaning tools, e.g. brushes}
1/123	• • • {using washing machines}
1/125	• • • {using fluid circuits}
1/126	• • {provided with means for cleaning in-use}

1/127	• • {with means for preventing fogging (<u>A61B 1/253</u>
1/100	takes precedence)}
1/128	• {provided with means for regulating temperature}
1/227	• for ears, i.e. otoscopes
1/2275	• {with controlled air pressure}
1/233	• for the nose, i.e. nasoscopes {, e.g. testing of patency of Eustachian tubes}
1/24	• for the mouth, i.e. stomatoscopes, e.g. with tongue
	depressors (tongue depressors per se A61B 13/00);
	Instruments for opening or keeping open the mouth
	(combined with saliva removers A61C 17/00;
	mouth openers for animals A61D 15/00)
1/247	• • with means for viewing areas outside the direct
1/050	line of sight, e.g. dentists' mirrors
1/253	• • • with means for preventing fogging
1/267	• for the respiratory tract, e.g. laryngoscopes,
1/2673	bronchoscopes
1/2676	 . {for monitoring movements of vocal chords} . {Bronchoscopes}
1/273	 • {Bronchoscopes} • for the upper alimentary canal, e.g.
1/2/3	oesophagoscopes, gastroscopes
1/2733	 {Oesophagoscopes}
1/2736	• {Gastroscopes}
1/303	• for the vagina, i.e. vaginoscopes
1/307	• for the urinary organs, e.g. urethroscopes,
	cystoscopes
1/31	• for the rectum, e.g. proctoscopes, sigmoidoscopes {,
	colonoscopes}
1/313	 for introducing through surgical openings, e.g.
	laparoscopes
1/3132	• {for laparoscopy}
1/3135	• • {for examination of the epidural or the spinal
	space
1/3137	space} {for examination of the interior of blood vessels}
1/3137	• • {for examination of the interior of blood vessels}
1/317	. {for examination of the interior of blood vessels}. for bones or joints, e.g. osteoscopes, arthroscopes
	• • {for examination of the interior of blood vessels}
1/317	 . {for examination of the interior of blood vessels} . for bones or joints, e.g. osteoscopes, arthroscopes . Devices for opening or enlarging the visual field, e.g. of a tube of the body (dilators <u>A61M 29/00</u>) Apparatus for testing the eyes; Instruments for
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1/317 1/32 3/00 3/0008 3/0016 3/0025 3/0033 3/0041 3/005 3/0058 3/0066 3/0075	 {for examination of the interior of blood vessels} for bones or joints, e.g. osteoscopes, arthroscopes Devices for opening or enlarging the visual field, e.g. of a tube of the body (dilators A61M 29/00) Apparatus for testing the eyes; Instruments for examining the eyes (eye inspection using ultrasonic, sonic or infrasonic waves A61B 8/10; devices for treatment of the eyes A61F 9/00; exercisers for the eyes A61H 5/00; optical systems in general G02B) {provided with illuminating means (A61B 3/117 takes precedence; goniolenses used for laser treatment <u>A61F 9/009</u>; illuminating means for optical instruments <u>G02B 27/00</u>) {Operational features thereof} {characterised by electronic signal processing, e.g. eye models} {characterised by display arrangements} {characterised by display arrangements} {for multiple images} {with identification means for the apparatus} {provided with adjusting devices, e.g. operated by control lever (manipulators <u>B25J</u>)}
1/317 1/32 3/00 3/0008 3/0016 3/0025 3/0033 3/0041 3/005 3/0058 3/0058 3/0066 3/0075 3/0083	 . {for examination of the interior of blood vessels} . for bones or joints, e.g. osteoscopes, arthroscopes Devices for opening or enlarging the visual field, e.g. of a tube of the body (dilators <u>A61M 29/00</u>) Apparatus for testing the eyes; Instruments for examining the eyes (eye inspection using ultrasonic, sonic or infrasonic waves <u>A61B 8/10</u>; devices for treatment of the eyes <u>A61F 9/00</u>; exercisers for the eyes <u>A61H 5/00</u>; optical systems in general <u>G02B</u>) . {provided with illuminating means (<u>A61B 3/117</u> takes precedence; goniolenses used for laser treatment <u>A61F 9/009</u>; illuminating means for optical instruments <u>G02B 27/00</u>) . {Operational features thereof} . {characterised by electronic signal processing, e.g. eye models} . {characterised by user input arrangements} . {Constructional features of the display} . {for multiple images} . {with identification means for the apparatus} . {with identification means for the apparatus} . {provided with adjusting devices, e.g. operated by control lever (manipulators <u>B25J</u>) . {provided with means for patient positioning} . {Fixation targets for viewing direction} . Subjective types, i.e. testing apparatus requiring the
1/317 1/32 3/00 3/0008 3/0016 3/0025 3/0033 3/0041 3/005 3/0058 3/0066 3/0075 3/0083 3/0091 3/02	 {for examination of the interior of blood vessels} for bones or joints, e.g. osteoscopes, arthroscopes Devices for opening or enlarging the visual field, e.g. of a tube of the body (dilators <u>A61M 29/00</u>) Apparatus for testing the eyes; Instruments for examining the eyes (eye inspection using ultrasonic, sonic or infrasonic waves <u>A61B 8/10</u>; devices for treatment of the eyes <u>A61F 9/00</u>; exercisers for the eyes <u>A61H 5/00</u>; optical systems in general <u>G02B</u>) {provided with illuminating means (<u>A61B 3/117</u> takes precedence; goniolenses used for laser treatment <u>A61F 9/009</u>; illuminating means for optical instruments <u>G02B 27/00</u>) {Operational features thereof} {characterised by electronic signal processing, e.g. eye models} {characterised by user input arrangements} {characterised by display arrangements} {for multiple images} {with identification means for the apparatus} {with identification means for the apparatus} {provided with adjusting devices, e.g. operated by control lever (manipulators <u>B25J</u>) {provided with means for patient positioning} {Fixation targets for viewing direction} Subjective types, i.e. testing apparatus requiring the active assistance of the patient
1/317 1/32 3/00 3/0008 3/0016 3/0025 3/0033 3/0041 3/005 3/0058 3/0058 3/0066 3/0075 3/0083 3/0091 3/02	 {for examination of the interior of blood vessels} for bones or joints, e.g. osteoscopes, arthroscopes Devices for opening or enlarging the visual field, e.g. of a tube of the body (dilators <u>A61M 29/00</u>) Apparatus for testing the eyes; Instruments for examining the eyes (eye inspection using ultrasonic, sonic or infrasonic waves <u>A61B 8/10</u>; devices for treatment of the eyes <u>A61F 9/00</u>; exercisers for the eyes <u>A61H 5/00</u>; optical systems in general <u>G02B</u>) {provided with illuminating means (<u>A61B 3/117</u> takes precedence; goniolenses used for laser treatment <u>A61F 9/009</u>; illuminating means for optical instruments <u>G02B 27/00</u>) {Operational features thereof} {characterised by electronic signal processing, e.g. eye models} {characterised by user input arrangements} {characterised by display arrangements} {for multiple images} {with identification means for the apparatus} {provided with adjusting devices, e.g. operated by control lever (manipulators <u>B251</u>) {provided with means for patient positioning} {Fixation targets for viewing direction} Subjective types, i.e. testing apparatus requiring the active assistance of the patient {for testing contrast sensitivity}
1/317 1/32 3/00 3/0008 3/0016 3/0025 3/0033 3/0041 3/005 3/0058 3/0066 3/0075 3/0083 3/0091 3/02	 {for examination of the interior of blood vessels} for bones or joints, e.g. osteoscopes, arthroscopes Devices for opening or enlarging the visual field, e.g. of a tube of the body (dilators <u>A61M 29/00</u>) Apparatus for testing the eyes; Instruments for examining the eyes (eye inspection using ultrasonic, sonic or infrasonic waves <u>A61B 8/10</u>; devices for treatment of the eyes <u>A61F 9/00</u>; exercisers for the eyes <u>A61H 5/00</u>; optical systems in general <u>G02B</u>) {provided with illuminating means (<u>A61B 3/117</u> takes precedence; goniolenses used for laser treatment <u>A61F 9/009</u>; illuminating means for optical instruments <u>G02B 27/00</u>) {Operational features thereof} {characterised by electronic signal processing, e.g. eye models} {characterised by user input arrangements} {characterised by display arrangements} {for multiple images} {with identification means for the apparatus} {with identification means for the apparatus} {provided with adjusting devices, e.g. operated by control lever (manipulators <u>B25J</u>) {provided with means for patient positioning} {Fixation targets for viewing direction} Subjective types, i.e. testing apparatus requiring the active assistance of the patient

3/028	• for testing visual acuity; for determination of refraction, e.g. phoropters
3/0285	• • {Phoropters}
3/0285	Devices for presenting test symbols
5/052	or characters, e.g. test chart projectors
	(A61B 3/036 takes precedence)
3/0325	• • • {provided with red and green targets}
3/036	for testing astigmatism
3/04	Trial frames; Sets of lenses for use therewith
	(lenses <u>per se G02C 7/02</u>)
3/06	• • for testing light sensitivity, e.g. adaptation; for
	testing colour vision
3/063	• • { for testing light sensitivity, i.e. adaptation }
3/066	• • {for testing colour vision}
3/08	 for testing binocular or stereoscopic vision, e.g. strabismus
3/085	• • { for testing strabismus }
3/09	for testing accommodation
3/10	• Objective types, i.e. instruments for examining the
5/10	eyes independent of the patients' perceptions or
	reactions
3/1005	• • {for measuring distances inside the eye, e.g.
	thickness of the cornea (A61B 3/11 takes
	precedence)}
3/101	• • {for examining the tear film}
3/1015	• • {for wavefront analysis}
3/102	• • {for optical coherence tomography [OCT]}
3/1025	• { for confocal scanning }
3/103	for determining refraction, e.g. refractometers, skiascopes
3/1035	• • { for measuring astigmatism (testing
5/1055	astigmatism <u>A61B 3/036</u>)}
3/107	• for determining the shape or measuring the
	curvature of the cornea
3/11	for measuring interpupillary distance or diameter
	of pupils
3/111	• • • {for measuring interpupillary distance}
3/112 3/113	 {for measuring diameter of pupils}. for determining or recording eye movement
	 for determining of recording eye movement for examining the anterior chamber or the anterior
3/117	chamber angle, e.g. gonioscopes
3/1173	 . { for examining the eye lens}
3/1176	• • • {for determining lens opacity, e.g. cataract}
3/12	• for looking at the eye fundus, e.g.
	ophthalmoscopes (A61B 3/13 takes precedence)
3/1208	• • {Multiple lens hand-held instruments}
3/1216	• • { for diagnostics of the iris }
3/1225	• • • {using coherent radiation}
3/1233	• • • • {for measuring blood flow, e.g. at the retina}
3/1241	• • • {specially adapted for observation of ocular
3/125	blood flow, e.g. by fluorescein angiography}
5/125	• • • with contact lenses (contact lenses <u>per se</u> <u>G02C 7/04</u>)
3/13	Ophthalmic microscopes
3/132	 {in binocular arrangement}
3/132	Slit-lamp microscopes
3/14	Arrangements specially adapted for eye
	photography {(apparatus or arrangements for
	taking photographs per se G03B)}
3/145	• • {by video means}
3/15	• • • with means for aligning, spacing or blocking
0/1	spurious reflection {; with means for relaxing}
3/152	• • • • {for aligning}

3/154	• • • • {for spacing}
3/156	• • • • {for blocking}
3/158	• • • • {of corneal reflection}
3/16	 for measuring intraocular pressure, e.g. tonometers
3/165	• • {Non-contacting tonometers}
3/18	. Arrangement of plural eye-testing or -examining
3/185	apparatus. {characterised by modular construction}
5/00	Measuring for diagnostic purposes (radiation
5/00	diagnosis <u>A61B 6/00</u> ; diagnosis by ultrasonic, sonic or infrasonic waves <u>A61B 8/00</u>); Identification of
	persons
	<u>NOTE</u>
	In this group, the following term is used with the meaning indicated:
	"measuring" covers also detecting or recording.
5/0002	• {Remote monitoring of patients using
	telemetry, e.g. transmission of vital signals via
	a communication network (A61B 5/07 takes
	precedence; transmission systems for measured
	values G08C; transmission H04B; transmission of
	digital information H04L; wireless communication
	networks <u>H04W</u>)}
5/0004	• • {characterised by the type of physiological signal transmitted}
5/0006	• • • {ECG or EEG signals}
5/0008	{Temperature signals}
5/0011	• • {Foetal or obstetric data}
5/0013	• • • {Medical image data (<u>A61B 1/00011</u> ,
5/0015	$\frac{A61B 6/56}{A61B 8/56} \text{ take precedence}$
5/0015	• {characterised by features of the telemetry
5/0015	system}
5/0017	• • {transmitting optical signals (transmission by
5/0017	light <u>H04B 10/00</u> }
5/002	-
3/002	• • • {Monitoring the patient using a local or closed circuit, e.g. in a room or building
5/0022	(A61B 5/0017 takes precedence)}
5/0022	• • {Monitoring a patient using a global network, e.g. telephone networks, internet}
5/0024	• • { for multiple sensor units attached to the
5/0024	patient, e.g. using a body or personal area
	network}
5/0026	• {characterised by the transmission medium}
5/0028	 . (Body tissue as transmission medium, i.e.
5/0028	transmission systems where the medium is the
	human body}
5/0031	• {Implanted circuitry}
5/0033	• {Features or image-related aspects of imaging
	apparatus classified in <u>A61B 5/00</u> , e.g. for MRI,
	optical tomography or impedance tomography
	apparatus; arrangements of imaging apparatus in a
E 1002 E	room (image data processing or generation <u>G06T</u>)}
5/0035	• • {adapted for acquisition of images from more
	than one imaging mode, e.g. combining MRI and
	optical tomography }
5/0036	• • {including treatment, e.g., using an implantable
	medical device, ablating, ventilating}
5/0037	• • {Performing a preliminary scan, e.g. a prescan for
	identifying a region of interest}

5/004	• • {adapted for image acquisition of a particular organ or body part (<u>A61B 5/0082</u> takes
	precedence; arrangements for optical scanning
	<u>A61B 5/0062</u>)}
5/0042	• • • { for the brain }
5/0044	• • • { for the heart }
5/0046	• • {Arrangements of imaging apparatus in a room,
	e.g. room provided with shielding or for improved access to apparatus}
5/0048	• {Detecting, measuring or recording by applying
	mechanical forces or stimuli (A61B 5/021, A61B 5/4884 and A61B 9/00 take precedence)}
5/0051	• {by applying vibrations}
5/0053	• {by applying pressure, e.g. compression,
5/0055	indentation, palpation, grasping, gauging}• {by applying suction}
5/0055	 (by applying succion) (by applying motion other than vibrations, e.g.
	rolling, rubbing, applying a torque, tribometry}
5/0059	• {using light, e.g. diagnosis by transillumination,
	diascopy, fluorescence (<u>A61B 5/0093</u> , <u>A61B 5/1455</u> , <u>A61B 5/02416</u> and <u>A61B 5/0261</u>
	take precedence)}
5/0062	• • {Arrangements for scanning}
5/0064	• • {Body surface scanning}
5/0066	• • • {Optical coherence imaging}
5/0068	{Confocal scanning}
5/0071	• • {by measuring fluorescence emission}
5/0073	• • {by tomography, i.e. reconstruction of 3D
	images from 2D projections (<u>A61B 5/0066</u> takes precedence)}
5/0075	• • {by spectroscopy, i.e. measuring spectra, e.g.
	Raman spectroscopy, infrared absorption
	spectroscopy (<u>A61B 5/0071</u> takes precedence)}
5/0077	• • {Devices for viewing the surface of the body, e.g. camera, magnifying lens}
5/0079	• • • {using mirrors, i.e. for self-examination}
5/0082	• • {adapted for particular medical purposes}
5/0084	• • • {for introduction into the body, e.g. by catheters (<u>A61B 5/1459</u> takes precedence)}
5/0086	• • • {using infrared radiation}
5/0088	• • • { for oral or dental tissue }
5/0091	• • • {for mammography}
5/0093	• {Detecting, measuring or recording by applying one
	single type of energy and measuring its conversion
	into another type of energy}
5/0095	• {by applying light and detecting acoustic waves, i.e. photoacoustic measurements}
5/0097	• • {by applying acoustic waves and detecting light, i.e. acoustooptic measurements}
5/01	• Measuring temperature of body parts {; Diagnostic
	temperature sensing, e.g. for malignant or inflamed tissue { (clinical contact thermometers <u>G01K 13/20</u>)
5/015	• {By temperature mapping of body part}
5/015	 Detecting, measuring or recording pulse, heart
5/02	rate, blood pressure or blood flow; Combined
	pulse/heart-rate/blood pressure determination;
	Evaluating a cardiovascular condition not otherwise
	provided for, e.g. using combinations of techniques provided for in this group with electrocardiography
	or electroauscultation; Heart catheters for measuring
	blood pressure
5/02007	• {Evaluating blood vessel condition, e.g. elasticity,
2, 32007	compliance}
5/02014	• • • {Determining aneurysm}

5/02021	
5/02021	• • {Determining capillary fragility}
5/02028	8
	otherwise provided for, e.g. cardiac contractility or left ventricular ejection fraction}
5/02035	• • {Determining blood viscosity}
5/02033	 Determining blood viscosity) {Determining blood loss or bleeding, e.g. during a
5/02012	surgical procedure}
5/0205	Simultaneously evaluating both cardiovascular
	conditions and different types of body conditions,
5/02055	e.g. heart and respiratory condition. (Simultaneously evaluating both
5/02055	• • • {Simultaneously evaluating both cardiovascular condition and temperature}
5/021	Measuring pressure in heart or blood vessels
	(A61B 5/0205 takes precedence)
5/02108	• • {from analysis of pulse wave characteristics}
5/02116	• • • {of pulse wave amplitude (<u>A61B 5/02225</u>
	takes precedence)}
5/02125	• • • • {of pulse wave propagation time}
5/02133	• • • {by using induced vibration of the blood
5/00141	vessel}
5/02141	• • • {Details of apparatus construction, e.g. pump units or housings therefor, cuff pressurising
	systems, arrangements of fluid conduits or
	circuits (<u>A61B 5/02233, A61B 5/0235</u> take
	precedence)}
5/0215	• • • by means inserted into the body (catheters
	<u>A61M 25/00</u>)
5/02152	• • • {specially adapted for venous pressure}
5/02154	• • • {by optical transmission}
5/02156	• • • • {Calibration means}
5/02158	• • • • { provided with two or more sensor
5/022	elements}
5/022	• • • by applying pressure to close blood vessels, e.g. against the skin; Ophthalmodynamometers
5/02208	• • • { using the Korotkoff method }
5/02216	• • • • • • • • • • • • • • • • • • •
5/02225	• • • {using the oscillometric method}
5/02233	• • • • {Occluders specially adapted therefor
	(tourniquets <u>A61B 17/132</u>)}
5/02241	•••• {of small dimensions, e.g. adapted to
	fingers}
5/0225	• • • • the pressure being controlled by electric
5/00055	signals, e.g. derived from Korotkoff sounds
5/02255	•••• {the pressure being controlled by plethysmographic signals, e.g. derived
	from optical sensors }
5/023	• • • • the pressure transducers comprising a liquid
	column
5/0235	Valves specially adapted therefor
5/024	. Detecting, measuring or recording pulse rate
	or heart rate (<u>A61B 5/0205</u> , <u>A61B 5/021</u> take
	precedence)
5/02405	
5/02411	(
5/02416	• • • {using photoplethysmograph signals, e.g.
	generated by infrared radiation (A61B 5/14552 takes precedence)}
5/02422	• • • {within occluders}
5/02422	
5/02427	{for infrared radiation}
5/02438	• • {with portable devices, e.g. worn by the
	patient}
5/02444	· · · · · · · · · · · · · · · · · · ·
	precedence)}

5/025	• • • within occluders, e.g. responsive to Korotkoff sounds (electric stethoscopes <u>A61B 7/04</u>)
5/0255	• • Recording instruments specially adapted therefor
5/026	• Measuring blood flow {(<u>A61B 3/1233</u> , <u>A61B 3/1241</u> take precedence)}
5/0261	• • • {using optical means, e.g. infrared light}
5/0263	• • • {using NMR}
5/0265	• • • using electromagnetic means, e.g. electromagnetic flowmeter
5/027	using catheters
5/0275	• • • using tracers, e.g. dye dilution
5/02755	{Radioactive tracers}
5/028	• • • by thermo-dilution
5/0285	 Measuring or recording phase velocity of blood waves
5/029	• • • Measuring or recording blood output from the
5/029	heart, e.g. minute volume {(<u>A61B 8/065</u> takes precedence)}
5/0295	 using plethysmography, i.e. measuring the variations in the volume of a body part
	as modified by the circulation of blood
	therethrough, e.g. impedance plethysmography
	WARNING
	Group <u>A61B 5/0295</u> is incomplete pending reclassification of documents from group <u>A61B 5/0535</u> . Groups <u>A61B 5/0535</u> and <u>A61B 5/0295</u> should be considered in order
	to perform a complete search.
5/03	• Detecting, measuring or recording fluid pressure within the body other than blood pressure, e.g.
	cerebral pressure; {Measuring pressure in body
	tissues or organs (A61B 5/205 takes precedence)}
5/031	• • {Intracranial pressure}
5/032	• • {Spinal fluid pressure}
5/033	• • {Uterine pressure}
5/035	• • {Intra-uterine probes therefor}
5/035	 . {by means introduced into body tracts
5/030	(A61B 5/032 and A61B 5/035 take precedence)
5/037	• • • {Measuring oesophageal pressure}
5/038	• • • {Measuring oral pressure}
5/05	• Detecting, measuring or recording for diagnosis
	by means of electric currents or magnetic fields;
	Measuring using microwaves or radio waves
	(impedance plethysmography A61B 5/0295;
	measuring movement of the entire body or parts
	thereof A61B 5/11; detecting, measuring or
	recording bioelectric or biomagnetic signals of the
	body or parts thereof A61B 5/24)
5/0507	• • using microwaves or terahertz waves
5/0515	• • Magnetic particle imaging
5/0522	• Magnetic induction tomography
5/053	Measuring electrical impedance or conductance
	of a portion of the body
5/0531	
	• • • Measuring skin impedance
5/0532	•••• Measuring skin impedance
5/0532 5/0533	 Measuring skin impedance specially adapted for acupuncture or moxibustion Measuring galvanic skin response

• • • by using sensing means generating electric signals, {i.e. ECG signals}

5/02455 . . . {provided with high/low alarm devices}

5/0245

5/0534 5/0535	 for testing vitality of teeth Impedance plethysmography (for measuring blood flow <u>A61B 5/0295</u>)
	WARNING
	Group <u>A61B 5/0535</u> is impacted by reclassification into group <u>A61B 5/0295</u> .
	Groups <u>A61B 5/0535</u> and <u>A61B 5/0295</u> should be considered in order to perform a complete search.
5/0536 5/0537 5/0538	 Impedance imaging, e.g. by tomography Measuring body composition by impedance, e.g. tissue hydration or fat content invasively, e.g. using a catheter
5/055	involving electronic [EMR] or nuclear [NMR] magnetic resonance, e.g. magnetic resonance imaging
	WARNING
	Group <u>A61B 5/055</u> is impacted by reclassification into groups <u>A61B 5/70</u> , <u>A61B 5/702</u> , <u>A61B 5/704</u> , <u>A61B 5/706</u> and <u>A61B 5/708</u> .
	All groups listed in this Warning should be considered in order to perform a complete search.
5/06	 Devices, other than using radiation, for detecting or locating foreign bodies (for removing same <u>A61B 17/50</u>); determining position of probes within or on the body of the patient}
5/061	• • {Determining position of a probe within the body employing means separate from the probe, e.g. sensing internal probe position employing impedance electrodes on the surface of the body (A61B 1/00158 takes precedence)}
5/062	• • { using magnetic field }
5/063	• • • {using impedance measurements}
5/064	• • • {using markers (<u>A61B 5/062</u> takes precedence)}
5/065	• • {Determining position of the probe employing exclusively positioning means located on or in the probe, e.g. using position sensors arranged on the probe}
5/066	• • • {Superposing sensor position on an image of the patient, e.g. obtained by ultrasound or x-ray imaging}
5/067	• • • {using accelerometers or gyroscopes}
5/068	• • {using impedance sensors}
5/07 5/073	 Endoradiosondes {Intestinal transmitters}
5/075 5/076	 . {Intestinal transmitters} . {Permanent implantations (telemetry using
5/0/0	implanted circuitry <u>A61B 5/0031</u> ; implanted stimulators for therapy <u>A61N 1/3605</u> , <u>A61N 1/362</u> , <u>A61N 1/372</u>)}
5/08	• Detecting, measuring or recording devices for evaluating the respiratory organs (<u>A61B 5/0205</u> takes precedence)
5/0803	• • {Recording apparatus specially adapted therefor}
5/0806	• • {by whole-body plethysmography (measuring blood flow using plethysmography <u>A61B 5/0295;</u> impedance plethysmography <u>A61B 5/053;</u> measuring volume of the body or parts thereof <u>A61B 5/1073</u>)}

5/0809	• • {by impedance pneumography}
5/0813	• {Measurement of pulmonary parameters by tracers, e.g. radioactive tracers}
5/0816	• • {Measuring devices for examining respiratory
	frequency (measuring frequency of electric
5/000	signals <u>G01R 23/00</u>)}
5/082	• {Evaluation by breath analysis, e.g. determination of the chemical composition of exhaled breath
	(<u>A61B 5/083</u> , <u>A61B 5/091</u> take precedence)}
5/0823	• {Detecting or evaluating cough events}
5/0826	• • {Detecting or evaluating apnoea events
	(<u>A61B 5/4818</u> takes precedence)}
5/083	• Measuring rate of metabolism by using breath
5/0833	test, e.g. measuring rate of oxygen consumption. {Measuring rate of oxygen consumption}
5/0833 5/0836	 . {Measuring rate of oxygen consumption} . {Measuring rate of CO₂ production}
5/085	 Measuring impedance of respiratory organs or
0,000	lung elasticity
5/087	• • Measuring breath flow
5/0871	• • • {Peak expiratory flowmeters}
5/0873	• • • {using optical means}
5/0875	• • • {using means carried by the fluid stream, e.g. free floating balls}
5/0876	• • • {using means deflected by the fluid stream, e.g. flaps}
5/0878	• • {using temperature sensing means}
5/09	• • • using an element rotated by the flow {(toys actuated by air current <u>A63H 33/40</u>)}
5/091	• Measuring volume of inspired or expired gases,
	e.g. to determine lung capacity
5/093	• • • the gases being exhaled into, or inhaled from, an expansible chamber, e.g. bellows or expansible bag
5/0935	• • • • {Recording apparatus specially adapted therefor}
5/095	• • • within a rigid container, e.g. the boundary being formed by a liquid surface
5/097	Devices for facilitating collection of breath or for directing breath into or through measuring devices
5/103	Detecting, measuring or recording devices
	for testing the shape, pattern, {colour,} size
	or movement of the body or parts thereof, for
	diagnostic purposes (<u>A61B 5/08</u> takes precedence; measuring aids for tailors <u>A41H 1/00</u> ; measuring
	instruments specially adapted for dentistry
	<u>A61C 19/04</u>)
5/1032	• • {Determining colour for diagnostic purposes
	(measuring colour in general <u>G01J 3/46</u>)}
5/1034	{by means of colour cards}
5/1036	• • {Measuring load distribution, e.g. podologic
5/1038	<pre>studies} {Measuring plantar pressure during gait}</pre>
5/1038	 • {Measuring plantal pressure during gait} • Measuring physical dimensions, e.g. size of the
5/10/	entire body or parts thereof
5/1071	• • {measuring angles, e.g. using goniometers (A61B 5/1123 takes precedence)}
5/1072	• • {measuring distances on the body, e.g.
,	measuring length, height or thickness (A61B 5/1076 takes precedence)}
5/1073	• • {Measuring volume, e.g. of limbs}
5/1074	• • {Foot measuring devices}

5/1075	• • • {for measuring dimensions by non-invasive
	methods, e.g. for determining thickness of
	tissue layer (A61B 8/0858 takes precedence)}
5/1076	• • • {for measuring dimensions inside body
	cavities, e.g. using catheters (A61B 3/1005
	takes precedence)}
5/1077	• • • {Measuring of profiles}
5/1078	•••• {by moulding}
5/1079	• • { using optical or photographic means }
5/11	• Measuring movement of the entire body or
	parts thereof, e.g. head or hand tremor, mobility
	of a limb (for measuring pulse A61B 5/02
	{; <u>A61B 5/1038</u> takes precedence; motion
	detection to correct for motion artifacts in
	physiological signals <u>A61B 5/721</u> })
5/1101	• • • {Detecting tremor}
5/1102	• • • {Ballistocardiography}
5/1103	• • • {Detecting eye twinkling}
5/1104	• • {induced by stimuli or drugs; (A61B 5/1102
	takes precedence; investigating medicinal
	preparations <u>G01N 33/15</u>)}
5/1105	• • • {of laboratory animals, e.g. activity}
5/1106	{to assess neuromuscular blockade, e.g. to
	estimate depth of anaesthesia}
5/1107	• • • {Measuring contraction of parts of the body,
	e.g. organ, muscle (apparatus for measuring
	work or force in general <u>G01L</u>)
5/1108	• • • • {of excised organs, e.g. muscle preparations}
5/1109	• • • {of wounds, e.g. at the operation site}
5/1111	• • • {Detecting tooth mobility}
5/1112	• • {Global tracking of patients, e.g. by using
0/1112	GPS}
5/1113	• • {Local tracking of patients, e.g. in a hospital or
0,1110	private home}
5/1114	• • • {Tracking parts of the body}
5/1115	• • • • {Monitoring leaving of a patient support, e.g.
	a bed or a wheelchair}
5/1116	• • • {Determining posture transitions}
5/1117	• • • {Fall detection}
5/1118	• • • {Determining activity level}
5/112	• • • {Gait analysis}
5/112	• • {Determining geometric values, e.g. centre of
J/1121	rotation or angular range of movement}
5/1122	• • • {of movement trajectories}
5/1122	 {Discriminating type of movement, e.g.
5/1125	walking or running (A61B 5/1116, A61B 5/112
	take precedence)}
5/1124	{Determining motor skills}
5/1124	
5/1125 5/1126	 {Grasping motions of hands} {using a particular sensing technique}
5/1127	{using markers}
5/1128	{using image analysis (<u>A61B 5/1127</u> takes
E/110	precedence)}
5/113	• • • occurring during breathing
5/1135	{by monitoring thoracic expansion}
5/117	• Identification of persons (methods or arrangements
	for recognising patterns, e.g. fingerprints,
	<u>G06F 18/00</u> , <u>G06V 40/00</u> ; identification of persons
E /1 1 - 1	by analysing their voice or speech G10L 17/00)
5/1171	• based on the shapes or appearances of their hadias or parts thereaf
E /1 1 E O	bodies or parts thereof
5/1172	• • • using fingerprinting
5/1174	• • • using footprinting

5/1176	• • • {Recognition of faces}
5/1178	• • • using dental data
5/12	• Audiometering
5/121	• • {evaluating hearing capacity}
5/123	• • • {subjective methods}
5/125	• • • {objective methods}
5/126	• • • • {measuring compliance or mechanical
E/100	impedance of the tympanic membrane }
5/128 5/14	 {evaluating tinnitus} {Devices for taking samples of blood (hypodermic
J/14	syringes <u>A61M 5/00</u>); Measuring characteristics
	of blood <u>in vivo</u> , e.g. gas concentration within the
	blood, pH-value of blood (measuring of blood
	pressure A61B 5/02; non-radiation detecting or
	locating of foreign bodies in blood <u>A61B 5/06</u>)}
	WARNING
	This group and its subgroups are no longer used
	for the classification of new documents as from
	April 1st, 2010. The backlog of these group is
	being continuously reclassified to $A61B 5/15$ and
	subgroups
5/1405	• • {Devices for taking blood samples (devices
	for taking samples of other body liquids
5/1/11	<u>A61B 10/0045</u>)}
5/1411 5/1416	 . {by percutaneous method, e.g. by lancet} . {by syringes containing more than one piston
5/1410	(medical syringes in general <u>A61M 5/178</u>)}
5/1422	• • • {provided with indicating means, e.g. for vein
	entry}
5/1427	• • • {Multiple blood sampling, e.g. at periodic or
5/1433	pre-established intervals}• (provided with locking means (details of
	• • • {provided with locking means (details of
5/1455	
5/1438	syringes <u>A61M 5/315</u>)}
5/1438	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or
5/1438 5/1444	 syringes <u>A61M 5/315</u>)} . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)}
5/1438	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas
5/1438 5/1444	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics
5/1438 5/1444	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid,
5/1438 5/1444	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow <u>A61B 5/02</u>; non-radiation detecting or
5/1438 5/1444 5/145	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow <u>A61B 5/02</u>; non-radiation detecting or locating of foreign bodies in blood <u>A61B 5/06</u>)
5/1438 5/1444	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow <u>A61B 5/02</u>; non-radiation detecting or locating of foreign bodies in blood <u>A61B 5/06</u>) . {invasive, e.g. introduced into the body by a
5/1438 5/1444 5/145	 syringes A61M 5/315)} . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes A61M 5/3205)} Measuring characteristics of blood in vivo, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow A61B 5/02; non-radiation detecting or locating of foreign bodies in blood A61B 5/06) . {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors
5/1438 5/1444 5/145	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow <u>A61B 5/02</u>; non-radiation detecting or locating of foreign bodies in blood <u>A61B 5/06</u>) . {invasive, e.g. introduced into the body by a
5/1438 5/1444 5/145	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow <u>A61B 5/02</u>; non-radiation detecting or locating of foreign bodies in blood <u>A61B 5/06</u>) {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors (<u>A61B 5/1459</u>, <u>A61B 5/1485</u>, take precedence)} {specially adapted for measuring characteristics
5/1438 5/1444 5/145 5/145	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow <u>A61B 5/02</u>; non-radiation detecting or locating of foreign bodies in blood <u>A61B 5/06</u>) {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors (<u>A61B 5/1459</u>, <u>A61B 5/1485</u> take precedence)} {specially adapted for measuring characteristics of body fluids other than blood (devices for
5/1438 5/1444 5/145 5/14503 5/14507	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow <u>A61B 5/02</u>; non-radiation detecting or locating of foreign bodies in blood <u>A61B 5/06</u>) {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors (<u>A61B 5/1459</u>, <u>A61B 5/1464</u>, <u>A61B 5/1473</u>, <u>A61B 5/1482</u>, <u>A61B 5/1485</u> take precedence)} {specially adapted for measuring characteristics of body fluids other than blood (devices for taking samples of body liquids <u>A61B 10/0045</u>)}
5/1438 5/1444 5/145 5/145 5/14503 5/14507 5/1451	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow <u>A61B 5/02</u>; non-radiation detecting or locating of foreign bodies in blood <u>A61B 5/06</u>) {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors (<u>A61B 5/1459</u>, <u>A61B 5/1464</u>, <u>A61B 5/1473</u>, <u>A61B 5/1482</u>, <u>A61B 5/1485</u> take precedence)} {specially adapted for measuring characteristics of body fluids other than blood (devices for taking samples of body liquids <u>A61B 10/0045</u>)} {for interstitial fluid}
5/1438 5/1444 5/145 5/14503 5/14507	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow <u>A61B 5/02</u>; non-radiation detecting or locating of foreign bodies in blood <u>A61B 5/06</u>) {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors (<u>A61B 5/1459</u>, <u>A61B 5/1464</u>, <u>A61B 5/1473</u>, <u>A61B 5/1482</u>, <u>A61B 5/14865</u> take precedence)} {specially adapted for measuring characteristics of body fluids other than blood (devices for taking samples of body liquids <u>A61B 10/0045</u>)} {for interstitial fluid} {using means for aiding extraction of
5/1438 5/1444 5/145 5/145 5/14503 5/14507 5/1451	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow <u>A61B 5/02</u>; non-radiation detecting or locating of foreign bodies in blood <u>A61B 5/06</u>) {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors (<u>A61B 5/1459</u>, <u>A61B 5/1464</u>, <u>A61B 5/1473</u>, <u>A61B 5/1482</u>, <u>A61B 5/1485</u> take precedence)} {specially adapted for measuring characteristics of body fluids other than blood (devices for taking samples of body liquids <u>A61B 10/0045</u>)} {for interstitial fluid}
5/1438 5/1444 5/145 5/145 5/14503 5/14507 5/1451	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow <u>A61B 5/02</u>; non-radiation detecting or locating of foreign bodies in blood <u>A61B 5/06</u>) . {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors (<u>A61B 5/1459</u>, <u>A61B 5/1464</u>, <u>A61B 5/1473</u>, <u>A61B 5/1482</u>, <u>A61B 5/14865</u> take precedence)} . {specially adapted for measuring characteristics of body fluids other than blood (devices for taking samples of body liquids <u>A61B 10/0045</u>)} . {for interstitial fluid} . {using means for aiding extraction of interstitial fluid, e.g. microneedles or
5/1438 5/1444 5/145 5/145 5/14503 5/14507 5/1451 5/14514	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow <u>A61B 5/02</u>; non-radiation detecting or locating of foreign bodies in blood <u>A61B 5/06</u>) . {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors (A61B 5/1459, A61B 5/1464, A61B 5/1473, A61B 5/1482, A61B 5/14865 take precedence)} . {specially adapted for measuring characteristics of body fluids other than blood (devices for taking samples of body liquids <u>A61B 10/0045</u>)} . {for interstitial fluid} . { {using means for aiding extraction of interstitial fluid, e.g. microneedles or suction} . {for sweat} . { {using means for promoting sweat
5/1438 5/1444 5/145 5/145 5/14503 5/14507 5/14517 5/14517	 syringes A61M 5/315) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes A61M 5/3205)} Measuring characteristics of blood in vivo, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow A61B 5/02; non-radiation detecting or locating of foreign bodies in blood A61B 5/06) {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors (A61B 5/1459, A61B 5/1464, A61B 5/1473, A61B 5/1482, A61B 5/14865 take precedence)} {specially adapted for measuring characteristics of body fluids other than blood (devices for taking samples of body liquids A61B 10/0045)} . {for interstitial fluid} . {using means for aiding extraction of interstitial fluid, e.g. microneedles or suction} . {for sweat} . {using means for promoting sweat production, e.g. heating the skin (measuring the skin (
5/1438 5/1444 5/145 5/145 5/14503 5/14507 5/14517 5/14514 5/14517 5/14521	 syringes A61M 5/315) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes A61M 5/3205)} Measuring characteristics of blood in vivo, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow A61B 5/02; non-radiation detecting or locating of foreign bodies in blood A61B 5/06) {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors (A61B 5/1459, A61B 5/1464, A61B 5/1473, A61B 5/1482, A61B 5/14865 take precedence)} {specially adapted for measuring characteristics of body fluids other than blood (devices for taking samples of body liquids A61B 10/0045)} . {for interstitial fluid} . {using means for promoting sweat production, e.g. heating the skin (measuring sweat secretion A61B 5/4266)}
5/1438 5/1444 5/145 5/145 5/14503 5/14507 5/14517 5/14514 5/14517 5/14521	 syringes A61M 5/315) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes A61M 5/3205)} Measuring characteristics of blood in vivo, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow A61B 5/02; non-radiation detecting or locating of foreign bodies in blood A61B 5/06) {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors (A61B 5/1459, A61B 5/1464, A61B 5/1473, A61B 5/1482, A61B 5/14865 take precedence)} {specially adapted for measuring characteristics of body fluids other than blood (devices for taking samples of body liquids A61B 10/0045)} {for interstitial fluid} {using means for adding extraction of interstitial fluid, e.g. microneedles or suction} {for sweat} {using means for promoting sweat production, e.g. heating the skin (measuring sweat secretion A61B 5/4266)} {using microdialysis}
5/1438 5/1444 5/145 5/145 5/14503 5/14507 5/14517 5/14514 5/14517 5/14521 5/14525 5/14528	 syringes <u>A61M 5/315</u>) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes <u>A61M 5/3205</u>)} Measuring characteristics of blood <u>in vivo</u>, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow <u>A61B 5/02</u>; non-radiation detecting or locating of foreign bodies in blood <u>A61B 5/06</u>) {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors (<u>A61B 5/1459</u>, <u>A61B 5/1464</u>, <u>A61B 5/1473</u>, <u>A61B 5/1482</u>, <u>A61B 5/14865</u> take precedence)} {specially adapted for measuring characteristics of body fluids other than blood (devices for taking samples of body liquids <u>A61B 10/0045</u>)} {for interstitial fluid} {using means for aiding extraction of interstitial fluid, e.g. microneedles or suction} {tor sweat} {using microdialysis} {using microdialysis} {invasive]}
5/1438 5/1444 5/145 5/145 5/14503 5/14507 5/14517 5/14514 5/14517 5/14521	 syringes A61M 5/315) . {using pre-evacuated means} . {Safety means, e.g. for locking cannula (removing or disposing of used needles or syringes A61M 5/3205)} Measuring characteristics of blood in vivo, e.g. gas concentration, pH value; {Measuring characteristics of body fluids or tissues, e.g. interstitial fluid, cerebral tissue}(measuring of blood pressure or blood flow A61B 5/02; non-radiation detecting or locating of foreign bodies in blood A61B 5/06) {invasive, e.g. introduced into the body by a catheter or needle or using implanted sensors (A61B 5/1459, A61B 5/1464, A61B 5/1473, A61B 5/1482, A61B 5/14865 take precedence)} {specially adapted for measuring characteristics of body fluids other than blood (devices for taking samples of body liquids A61B 10/0045)} {for interstitial fluid} {using means for adding extraction of interstitial fluid, e.g. microneedles or suction} {for sweat} {using means for promoting sweat production, e.g. heating the skin (measuring sweat secretion A61B 5/4266)} {using microdialysis}

5/14539	• { for measuring pH }
5/14542	• { for measuring blood gases (A61B 5/14551 takes
	precedence)}
5/14546	• • {for measuring analytes not otherwise provided
	for, e.g. ions, cytochromes}
5/1455	• using optical sensors, e.g. spectral photometrical
	oximeters
5/14551	• • • {for measuring blood gases}
5/14552	{Details of sensors specially adapted therefor}
5/14553	•••• {specially adapted for cerebral tissue}
5/14555	•••• {specially adapted for the eye fundus}
5/14556	• • • {by fluorescence (<u>A61B 5/14555</u> takes
	precedence)}
5/14557	• • • {specially adapted to extracorporeal circuits}
5/14558	• • • {by polarisation}
5/1459	• • invasive, e.g. introduced into the body by a
	catheter {(<u>A61B 5/1464</u> takes precedence)}
5/1464	specially adapted for foetal tissue
5/1468	• using chemical or electrochemical methods, e.g.
	by polarographic means {(<u>A61B 5/1486</u> takes
5/1/72	precedence)}
5/1473	invasive, e.g. introduced into the body by a catheter {(<u>A61B 5/1482</u> takes precedence)}
5/14735	• • • {comprising an immobilised reagent}
5/14735	
5/1482	• • • specially adapted for foetal tissue
5/1486	 using enzyme electrodes, e.g. with immobilised
5/1400	oxidase
5/14865	• • {invasive, e.g. introduced into the body by a
	catheter or needle or using implanted sensors}
5/1491	• • Heated applicators
5/1495	. Calibrating or testing of in-vivo probes
5/15	• Devices for taking samples of blood (hypodermic
	syringes <u>A61M 5/178</u>)
	NOTE
	In these subgroups, the following terms are used

- with the meaning indicated:
 "piercing element" means skin penetrating component e.g. blade, needle, lancet, laser beam;
- "piercing or lancing device" means device ready to be used for lancing;
- "driving device" means device for driving a piercing element e.g. spring

WARNING

This group and its subgroups are not complete pending a reorganisation. See also <u>A61B 5/140</u>, <u>A61B 5/1405</u> and subgroups

5/150007	•	•	{Details}
5/150015	•	•	• {Source of blood}
5/150022	•	•	• • {for capillary blood or interstitial fluid}
5/15003	•	•	• • {for venous or arterial blood}
5/150038	•	•	• • {for blood from umbilical cord}
5/150045	•	•	• • {for blood from vagina, placenta, colon or
			mouth}

	enhanced collection of blood or interstitial
	at the sample site, e.g. by applying
	pression, heat, vibration, ultrasound,
	ion or vacuum to tissue; for reduction of or discomfort; Skin piercing elements,
	blades, needles, lancets or canulas, with
	stable piercing speed}
-	Means for enhancing collection}
5/150068	
	designed surface of device contacting the
	skin area to be pierced}
5/150076	{by heating}
	{by vibration, e.g. ultrasound}
	{by electricity}
5/150099	{by negative pressure, other than vacuum
	extraction into a syringe by pulling on the piston rod or into pre-evacuated tubes }
5/150106 {]	Means for reducing pain or discomfort
	oplied before puncturing; desensitising
	ie skin at the location where body is to be
	erced}
5/150114	{by tissue compression, e.g. with specially
	designed surface of device contacting the
	skin area to be pierced}
	{by heating}
5/150129	
5/150137	{by vibration (enhancing collection by
5/150145	vibration <u>A61B 5/150175</u>)} {by negative pressure, e.g. suction,
5/150145	vacuum}
5/150152	{by an adequate mechanical impact on the
	puncturing location}
5/15016	{by accessories for bringing the piercing
	element into the body, e.g. through
	rotation of the piercing element}
	Adjustable piercing speed of skin piercing
	ement, e.g. blade, needle, lancet or canula, or example with varying spring force or
	neumatic drive}
-	justment of penetration depth }
	Depth adjustment mechanism using
· · · · · · · · · · · · · · · · · · ·	nd caps mounted at the distal end of the
	impling device, i.e. the end-caps are
	ljustably positioned relative to the piercing
	evice housing for example by rotating or
	crewing}
	Depth adjustment mechanism using
	ovable stops located inside the piercing evice housing and limiting the travel of the
	rive mechanism (mechanisms using distal
	nd caps A61B 5/150183, mechanisms at
	e piercing element carrier proximal end
	<u>61B 5/150198</u>)}
	Depth adjustment mechanism at the
-	roximal end of the carrier of the piercing
	ement} nstruction or design features not otherwise
	/ided for; manufacturing or production;
	kages; sterilisation of piercing element,
	cing device or sampling device}
5/150213 {	Venting means}
5/150221 {	Valves}
5/150229 {]	Pumps for assisting the blood sampling}

5/150236 • • • • {Pistons, i.e. cylindrical bodies that sit inside
the syringe barrel, typically with an air tight seal, and slide in the barrel to create a
vacuum or to expel blood}
5/150244 {Rods for actuating or driving the piston,
i.e. the cylindrical body that sits inside the
syringe barrel, typically with an air tight seal,
and slides in the barrel to create a vacuum or
to expel blood}
5/150251 {Collection chamber divided into at least two
compartments, e.g. for division of samples (injection syringes having more than one
chamber <u>A61M 5/19;</u> syringes for injection
of two or more media <u>A61M 5/2448</u> ,
A61M 5/284; sample preparation for further
analysis <u>A61B 5/150755</u>)}
5/150259 {Improved gripping, e.g. with high friction
pattern or projections on the housing surface
or an ergonometric shape}
5/150267 {Modular design or construction, i.e. subunits are assembled separately before
being joined together or the device comprises
interchangeable or detachable modules }
5/150274 {Manufacture or production processes or
steps for blood sampling devices}
5/150282 { for piercing elements, e.g. blade, lancet,
canula, needle }
5/15029 {for driving devices, i.e. means for driving
the piercing element}
5/150297 { for piercing devices, i.e. devices ready to be used for lancing or piercing (for
piercing elements <u>A61B 5/150282</u> , for
driving devices <u>A61B 5/15029</u>)}
5/150305 {Packages specially adapted for piercing
devices or blood sampling devices (kits for
diabetes A61M 5/003; packaging in general
<u>B65D</u>)}
5/150312 • • • { Sterilisation of piercing elements, piercing
devices or sampling devices (piercing
element stocking means, e.g. cartridges, A61B 5/15176)}
5/15032 {by heating}
5/150328 {by aseptic fluid}
5/150335 • • • • {by radiation}
5/150343 {Collection vessels for collecting blood
samples from the skin surface, e.g. test tubes,
cuvettes (sampling from within body cavities
<u>A61B 5/150015</u> , <u>A61B 5/150045</u>)}
5/150351 • • • {Caps, stoppers or lids for sealing or closing a blood collection vessel or container, e.g. a
test-tube or syringe barrel (caps for bottles or
containers in general <u>B65D 41/00</u>)}
5/150358 { Strips for collecting blood, e.g. absorbent
(optical reagent test strips G01N 21/8483;
chemical reagent test strips G01N 33/4875,
<u>G01N 33/52</u>)}
5/150366 {Blood collection bags, e.g. connected to
the patient by a catheter comprising means for removing a small sample of collected
blood from the bag (collection bags as such
<u>A61J 1/05, A61M 1/0209</u>)}

le	5/150374	•	•	•	m su ne si	iea icł eec ng	tails of piercing elements or protective ns for preventing accidental injuries by n piercing elements (double-ended hollow dles <u>A61B 5/150473</u> , <u>A61B 5/150389</u> ; ele-ended hollow needles <u>A61B 5/150503</u> , <u>B 5/150389</u>)}
_							
al,	5/150381	•	•	•	•	{]	Design of piercing elements}
or	5/150389	•	•	•	•	•	{Hollow piercing elements, e.g. canulas, needles, for piercing the skin}
VO	5/150396	•	•	•	•	•	• {Specific tip design, e.g. for improved penetration characteristics}
							1
	5/150404		•	•			• {Specific design of proximal end}
	5/150412	•	•	•	•	•	{Pointed piercing elements, e.g. needles,
							lancets for piercing the skin (blade-like
r							piercing elements A61B 5/150442)}
	5/150419						• {comprising means for capillary action}
e	5/150427	•	•	•			• {Specific tip design, e.g. for improved penetration characteristics}
	5/150435	•	•	•	•	•	• {Specific design of proximal end}
	5/150442	•	•	•	•	•	{Blade-like piercing elements, e.g. blades, cutters, knives, for cutting the skin}
es	5/15045						• {comprising means for capillary action}
	5/150458						• {Specific blade design, e.g. for
		•	•	•	•	•	improved cutting and penetration characteristics}
	5/150465						• {Specific design of proximal end}
	5/150403			•	•	•	{Double-ended needles, e.g. used with pre-
ıg	5/150475	•	•	•	•	•	evacuated sampling tubes (hollow piercing element tip design <u>A61B 5/150396</u> ; needle sets for catheters <u>A61M 25/06</u> ; needles for
							bringing media into the body <u>A61M 5/32</u>)}
	5/15048	•	•	•	•	•	• {Details of construction of proximal end}
	5/150488						• {Details of construction of shaft}
	5/150496		•	•	•	•	• {Details of construction of hub, i.e.
5	5/150490	•	•	•	•	•	element used to attach the double-ended needle to a piercing device or sampling
	5/150500						device}
	5/150503	•	•	•	•	•	{Single-ended needles (hollow piercing element tip design <u>A61B 5/150396</u> , needle sets for catheters <u>A61M 25/06</u> , needles for bringing media into the body <u>A61M 5/32</u>)}
	5/150511	•	•	•	•	•	• {Details of construction of shaft}
	5/150519						• {Details of construction of hub, i.e.
							element used to attach the single-ended needle to a piercing device or sampling device}
	5/150526						{Curved or bent needles}
							Design of protective means for piercing
	5/150554	•	•	•	•	el st ez	ements for preventing accidental needle icks, e.g. shields, caps, protectors, axially ktensible sleeves, pivotable protective eeves}
	5/150541						{Breakable protectors, e.g. caps, shields
	5,150541	•	•	•	•	•	or sleeves, i.e. protectors separated destructively, e.g. by breaking a
							connecting area}
	5/150549		-	~			• {Protectors removed by rotational
	2,120347	•	•	•	•	•	movement, e.g. torsion or screwing}
	5/150557						
	5/150557		•	•	•	•	• {Protectors removed by bending}
	5/150564	•	•	•	•	•	• {Protectors removed by pulling or pushing}

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5/150572	{Pierceable protectors, e.g. shields, caps, sleeves or films, e.g. for hygienic purposes}
5/15058	{Joining techniques used for protective means}
5/150587	• {by friction fit}
5/150595	 {by snap-lock (i.e. based on axial displacement)}
5/150603	• {by rotation, e.g. bayonet or screw}
5/15061	• {by material engagement, e.g. welding, bonding}
5/150618	• {Integrally moulded protectors, e.g. protectors simultaneously moulded together with a further component, e.g. a
5/150625	hub, of the piercing element}{by using additional parts, e.g. clamping rings or collets}
5/150633	{Protective sleeves which are axially
5/150055 • • • • •	extensible, e.g. sleeves connected to,
	or integrated in, the piercing or driving
	device; pivotable protective sleeves }
5/150641	• {comprising means to impede
	repositioning of protection sleeve from
	covering to uncovering position}
5/150648	• • {fully automatically triggered, i.e. the triggering of the protective sleeve
	does not require a deliberate action by the user such as terminating the
	contact with the patient's skin}
5/150656	 {semi-automatically triggered, i.e. in
5/150050 • • • • •	which the triggering of the protective
	sleeve requires a deliberate action
	by the user, e.g. manual release of spring-biased extension means}
5/150664	{Pivotable protective sleeves, i.e. sleeves
	connected to, or integrated in, the piercing
	or driving device, and which are pivoted
	for covering or uncovering the piercing
	element}
5/150671	• {comprising means to impede
	repositioning of protection sleeve from
	covering to uncovering position}
5/150679	• • {fully automatically triggered, i.e. the triggering of the pivotable protective sleeve does not require a deliberate
	action by the user such as terminating
	the contact with the patient's skin}
5/150687	• • {semi-automatically triggered, i.e. in
	which the triggering of the pivotable
	protective sleeve requires a deliberate
	action by the user such as manual
	release of spring-biased extension
	means}
5/150694	{Procedure for removing protection means
	at the time of piercing}
5/150702	• {fully automatically removed, i.e. the
	removing does not require any action by
5/150709	the user }
5/150/09 • • • • •	• {semi-automatically removed, i.e. before puncturing the protection is
	removed by a mechanism initiated by
	a deliberate action by the user, such as
	pressing a button }
5/150717	• {manually removed}
	- (

5/150725 {removal procedure linked to further
actions, e.g. cocking of the piercing
device, which indicate that the piercing
device is used or tempered} 5/150732 • • • {Needle holders, for instance for holding the
needle by the hub, used for example with
double-ended needle and pre-evacuated tube,}
5/15074 {Needle sets comprising wings, e.g. butterfly
type, for ease of handling}
5/150748 {Having means for aiding positioning of
the piercing device at a location where the
body is to be pierced (means for aiding
positioning of devices for bringing media into
the body A61M 5/427, locating blood vessels
<u>A61B 5/489</u>)}
5/150755 {Blood sample preparation for further analysis,
e.g. by separating blood components or by
mixing}
5/150763 {with identification means (identification
means for surgical instruments <u>A61B 90/90</u>)}
5/15077 {characterized by physical shape}
5/150778 {having complementary physical shapes for
indexing or registration purposes}
5/150786 {Optical identification systems, e.g. bar
codes, colour codes}
5/150793 {Electrical or magnetic identification means}
5/150801 • • • {Means for facilitating use, e.g. by people with impaired vision; means for indicating
when used correctly or incorrectly; means for
alarming}
5/150809 {by audible feedback}
5/150816 • • • {by tactile feedback, e.g. vibration}
5/150824 {by visual feedback}
5/150832 {by topography of the surface, e.g. Braille,
embossed printing}
5/150839 {Aesthetic features, e.g. distraction means to
5/150839 • • • {Aesthetic features, e.g. distraction means to prevent fears of child patients}
prevent fears of child patients }
prevent fears of child patients } 5/150847 {Communication to or from blood sampling
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data <u>A61B 5/0002</u>)} 5/150854 {long distance, e.g. between patient's home
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data <u>A61B 5/0002</u>)} 5/150854 {long distance, e.g. between patient's home and doctor's office}
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data <u>A61B 5/0002</u>)} 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data <u>A61B 5/0002</u>)} 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building}
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 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data <u>A61B 5/0002</u>)} 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building} 5/15087 {short range, e.g. between console and disposable (using implanted devices
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 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data <u>A61B 5/0002</u>)} 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building } 5/15087 {short range, e.g. between console and disposable (using implanted devices <u>A61B 5/150877</u>) } 5/150877 {with implanted devices } 5/150885 {Preventing re-use } 5/150893 {by indicating if used, tampered with,
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data <u>A61B 5/0002</u>)} 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building } 5/15087 {short range, e.g. between console and disposable (using implanted devices <u>A61B 5/150877</u>) } 5/150877 {with implanted devices } 5/150885 {Preventing re-use } 5/150893 {by indicating if used, tampered with, unsterile or defective }
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data <u>A61B 5/0002</u>)} 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building} 5/15087 {short range, e.g. between console and disposable (using implanted devices <u>A61B 5/150877</u>)} 5/150877 {with implanted devices } 5/150885 {Preventing re-use} 5/150893 {by indicating if used, tampered with, unsterile or defective} 5/1509 {by disrupting a seal, e.g. puncturing a piston
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data <u>A61B 5/0002</u>)} 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building} 5/150877 {short range, e.g. between console and disposable (using implanted devices <u>A61B 5/150877</u>)} 5/150885 {Preventing re-use} 5/150893 {by indicating if used, tampered with, unsterile or defective} 5/1509 {by disrupting a seal, e.g. puncturing a piston seal}
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data A61B 5/0002) } 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building } 5/150877 {short range, e.g. between console and disposable (using implanted devices A61B 5/150877) } 5/150877 {with implanted devices } 5/150885 {Preventing re-use } 5/150893 {by indicating if used, tampered with, unsterile or defective } 5/1509 {by disconnecting components, e.g. breaking
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data <u>A61B 5/0002</u>)} 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building} 5/15087 {short range, e.g. between console and disposable (using implanted devices <u>A61B 5/150877</u>)} 5/150877 {with implanted devices } 5/150885 {Preventing re-use } 5/150893 {by indicating if used, tampered with, unsterile or defective } 5/1509 {by disconnecting components, e.g. breaking or rupturing of connected parts, e.g. piston
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data A61B 5/0002) } 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building } 5/150877 {short range, e.g. between console and disposable (using implanted devices A61B 5/150877) } 5/150877 {with implanted devices } 5/150885 {Preventing re-use } 5/150893 {by indicating if used, tampered with, unsterile or defective } 5/1509 {by disconnecting components, e.g. breaking
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 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data <u>A61B 5/0002</u>)} 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building } 5/15087 {short range, e.g. between console and disposable (using implanted devices <u>A61B 5/150877</u>). 5/150877 {with implanted devices } 5/150885 {Preventing re-use } 5/150893 {by indicating if used, tampered with, unsterile or defective } 5/1509 {by disconnecting components, e.g. breaking or rupturing of connected parts, e.g. piston and rod } 5/150916 {by blocking components, e.g. piston,
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data <u>A61B 5/0002</u>)} 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building} 5/15087 {short range, e.g. between console and disposable (using implanted devices <u>A61B 5/150877</u>). 5/150877 {with implanted devices } 5/150885 {Preventing re-use} 5/150893 {by indicating if used, tampered with, unsterile or defective} 5/1509 {by disrupting a seal, e.g. puncturing a piston seal} 5/150916 {by blocking components, e.g. piston, driving device or fluid passageway}
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data A61B 5/0002) } 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building } 5/15087 {short range, e.g. between console and disposable (using implanted devices A61B 5/150877) } 5/150877 {with implanted devices } 5/150885 {Preventing re-use } 5/150893 {by indicating if used, tampered with, unsterile or defective } 5/150908 {by disconnecting components, e.g. breaking or rupturing of connected parts, e.g. piston and rod } 5/150916 {by blocking components, e.g. piston, driving device or fluid passageway } 5/150923 {by means for destroying components or parts, e.g. by cutting or piercing } 5/150931 {by including soluble parts }
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data <u>A61B 5/0002</u>)} 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building} 5/150877 {short range, e.g. between console and disposable (using implanted devices <u>A61B 5/150877</u>)} 5/150877 {with implanted devices } 5/150885 {Preventing re-use} 5/150893 {by indicating if used, tampered with, unsterile or defective} 5/1509 {by disrupting a seal, e.g. puncturing a piston seal} 5/150916 {by blocking components, e.g. piston, driving device or fluid passageway} 5/150923 {by means for destroying components or parts, e.g. by cutting or piercing}
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data A61B 5/0002) } 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building } 5/150877 {short range, e.g. between console and disposable (using implanted devices A61B 5/150877 {with implanted devices } 5/150877 {with implanted devices } 5/150877 {with implanted devices } 5/150877 {by indicating if used, tampered with, unsterile or defective } 5/1509 {by disconnecting components, e.g. breaking or rupturing of connected parts, e.g. piston and rod } 5/150916 {by blocking components, e.g. piston, driving device or fluid passageway } 5/150931 {by including soluble parts } 5/150938 {by uncluding soluble parts } 5/150938 {by blocking components, e.g. piston, driving or disabling needle } 5/150946 {Means for varying, regulating, indicating or
 prevent fears of child patients } 5/150847 {Communication to or from blood sampling device (transmitting measured data A61B 5/0002) } 5/150854 {long distance, e.g. between patient's home and doctor's office } 5/150862 {intermediate range, e.g. within room or building } 5/15087 {short range, e.g. between console and disposable (using implanted devices A61B 5/150877) } 5/150877 {with implanted devices } 5/150885 {Preventing re-use } 5/150893 {by indicating if used, tampered with, unsterile or defective } 5/150908 {by disconnecting components, e.g. breaking or rupturing of connected parts, e.g. piston and rod } 5/150916 {by blocking components, e.g. piston, driving device or fluid passageway } 5/150931 {by including soluble parts } 5/150938 {by including soluble parts } 5/150938 {by bloucting or disabling needle }

5/150954	•	•	 {Means for the detection of operative contact with patient, e.g. by temperature sensitive sensor}
5/150961	•	•	,
5/150969	•	•	{Low-profile devices which resemble patches o plasters, e.g. also allowing collection of blood
			samples for testing}
5/150977	•	•	{Arrays of piercing elements for simultaneous piercing}
5/150984		•	• {Microneedles or microblades}
5/150992	•	•	{Blood sampling from a fluid line external to
			a patient, such as a catheter line, combined with an infusion line; blood sampling from
			indwelling needle sets, e.g. sealable ports,
			luer couplings, valves (tubing connectors and
			couplings <u>A61M 39/00</u>)}
5/151	•	•	{Devices} specially adapted for taking samples
			of capillary blood, e.g. by lancets {, needles or
			blades}
5/15101	•		• {Details}
5/15103	•	•	• {Piercing procedure}
5/15105	•	•	• • {Purely manual piercing, i.e. the user pierces the skin without the assistance of
			any driving means or driving devices }
5/15107			• • {Piercing being assisted by a triggering
			mechanism}
5/15109	•	•	• • • • {Fully automatically triggered, i.e. the
			triggering does not require a deliberate
			action by the user, e.g. by contact with
5/15111			the patient's skin}
5/15111	•	•	• • • {Semi-automatically triggered, e.g. at the end of the cocking procedure,
			for instance by biasing the main drive
			spring or when reaching sufficient
			contact pressure, the piercing device
			is automatically triggered without any
5/15112			deliberate action by the user}
5/15113	•	•	• • • {Manually triggered, i.e. the triggering requires a deliberate action by the user
			such as pressing a drive button }
5/15115			• {Driving means for propelling the piercing
			element to pierce the skin, e.g. comprising
			mechanisms based on shape memory alloys
			magnetism, solenoids, piezoelectric effect,
			biased elements, resilient elements, vacuun or compressed fluids }
5/15117		_	• • {comprising biased elements, resilient
5/1511/	•	•	elements or a spring, e.g. a helical spring
			leaf spring, or elastic strap}
5/15119	•	•	• • {comprising shape memory alloys}
5/15121	•	•	• • • {comprising piezos}
5/15123	•	•	• • • {comprising magnets or solenoids}
5/15125	•	•	• • • {comprising a vacuum or compressed
5/15126			fluids}• {Means for controlling the lancing
5/13120	•	•	movement, e.g. 2D- or 3D-shaped elements
			tooth-shaped elements or sliding guides}
5/15128	•	•	• • {comprising 2D- or 3D-shaped elements
			e.g. cams, curved guide rails or threads
			(comprising tooth-shaped elements
			<u>A61B 5/15132</u>)}

5/1513	•	•	•	•	•	(c	comprising linear sliding guides omprising tooth-shaped elements 61B 5/15132)}
5/15132	•	•	•	•	•	{0	comprising tooth-shaped elements, e.g. othed wheel or rack and pinion}
5/15134	•	•	•	i. to bl	e. d o ol lad	ide lev ota e,	iless capillary blood sampling devices, vices for perforating the skin in order in a blood sample but not using a needle, canula, or lancet, e.g. by laser ation, suction or pressurized fluids}
5/15136	•				{t	Ŋу	use of radiation, e.g. laser}
5/15138					Ì	-	provided with means to ensure the
						pr	otection of the user, e.g. to avoid laser ght entering the eyes of a user}
5/1514	•	•	•	•			use of gaseous agents, e.g. using suction ration or pressurized gas}
5/15142				n		-	the set of
5/15142	•	•	•				able}
5/15144	•	•	•	•			nprising driving means, e.g. a spring, for cting the piercing unit into the housing}
5/15146	•	•	•				es loaded with multiple lancets
				re m	eloa nea	adi ns	aneously, e.g. for serial firing without ng, for example by use of stocking (multiple simultaneous cutting or g A61B 5/150977)}
5/15148	•	•	•	•	{0	Co	nstructional features of stocking means, strip, roll, disc, cartridge, belt or tube}
5/15149	•	•	•	•	•	{	Arrangement of piercing elements lative to each other}
5/15151	•	•	•	•	•	•	{Each piercing element being stocked in
5/15153	•	•	•	•	•	•	a separate isolated compartment} {Multiple piercing elements stocked in a single compartment}
5/15155	•	•	•	•	•	•	{Piercing elements which are specially
							shaped or are provided with fittings or attachments to facilitate nesting, stacking or joining together end-to-end or side-by-side}
5/15157	•	•	•	•	•		Geometry of stocking means or
						ar	rangement of piercing elements therein }
5/15159	•	•	•	•	•	•	{Piercing elements stocked in or on a disc}
5/15161	•	•	•	•	•	•	• {Characterized by propelling the piercing element in a radial direction relative to the disc}
5/15163	•	•	•	•	•	•	• {Characterized by propelling the piercing element in an axial direction relative to the disc}
5/15165	•	•	•	•	•	•	{Piercing elements stocked in or on a strip}
5/15167							• {Characterized by a folded strip}
5/15169							• {Characterized by a rolled strip}
5/15171	•	•	•	•	•	•	 (Characterized by propelling the
5/151/1	•	•	•	•	•	•	 ventration of properties of the strip is a strict of the strip is a stript of the stript of the
5/15173	•	•	•	•	•	•	• {Characterized by propelling the piercing element parallel to the direction of movement of the strip}
5/15174	•	•	•	•	•	•	{Piercing elements stocked in the form of a stack or pile}
5/15176	•	•	•	•	•		Stocking means comprising cap, cover, eath or protection for aseptic stocking }

5/15178	••••• {Stocking means comprising separate compartments or units for new and for used piercing elements (separate compartments for used piercing elements in piercing devices <u>A61B 5/15184</u>)}
5/1518	• • • {Security or safety mechanism to be deactivated for forwarding next piercing element}
5/15182	 . • {Means for keeping track or checking of the total number of piercing elements already used or the number of piercing elements still remaining in the stocking, e.g. by check window, counter, display}
5/15184	•••• {Piercing device comprising a separate compartment or unit for used piercing elements (separate compartments for used piercing elements in stocking means <u>A61B 5/15178</u>)}
5/15186	• • {Devices loaded with a single lancet, i.e. a single lancet with or without a casing is loaded into a reusable drive device and then discarded after use; drive devices reloadable for multiple use}
5/15188	• • • {Constructional features of reusable driving devices}
5/1519	•••• {comprising driving means, e.g. a spring, for propelling the piercing unit}
5/15192	••••• {comprising driving means, e.g. a spring, for retracting the lancet unit into the driving device housing}
5/15194	••••• {fully automatically retracted, i.e. the retraction does not require a deliberate action by the user, e.g. by terminating the contact with the patient's skin}
5/15196	••••• {semi-automatically retracted, i.e. in which the retraction of the piercing unit requires a deliberate action by the user such as manual release of spring-biased retraction means}
5/15198	• • • • • {purely manually retracted}
5/153	• {Devices} specially adapted for taking samples of venous or arterial blood, e.g. with syringes
5/1535	• • {comprising means for indicating vein or arterial entry (<u>A61B 5/1545</u> takes precedence)}
5/154	{Devices} using pre-evacuated means
5/1545	 {comprising means for indicating vein or arterial entry} . {Devices} specially adapted for continuous
5/155	or multiple sampling, e.g. at predetermined intervals {(devices loaded with multiple lancets simultaneously <u>A61B 5/15146</u>)}
5/157	• {Devices} characterised by integrated means for measuring characteristics of blood
5/16	 Devices for psychotechnics (using teaching or educational appliances <u>G09B 1/00</u> - <u>G09B 7/00</u>); Testing reaction times {; Devices for evaluating the psychological state}
5/161	• • {Flicker fusion testing (eye testing <u>A61B 3/00</u>)}
5/162	• • {Testing reaction times}
5/163	• • {by tracking eye movement, gaze, or pupil change}
5/164	• • {Lie detection}
5/165	• • {Evaluating the state of mind, e.g. depression, anxiety}
5/167	• • {Personality evaluation}

5/168	• {Evaluating attention deficit, hyperactivity}	
5/18	• for vehicle drivers {or machine operators}	
5/20	for measuring urological functions {restricted t	0
	the evaluation of the urinary system (A61B $5/4$	
	takes precedence)}	
5/201	• {Assessing renal or kidney functions}	
5/202	• {Assessing bladder functions, e.g. incontiner	ice
	assessment }	
5/204	• • {Determining bladder volume}	
5/205	• • {Determining bladder or urethral pressure	}
5/207	• {Sensing devices adapted to collect urine}	
5/208	• {adapted to determine urine quantity, e.g. volume}	flow,
5/22	Ergometry; Measuring muscular strength or the	
	force of a muscular blow ({exercising apparatu	S
	<u>A63B 21/00</u> }; measuring of work or force in	
	general <u>G01L</u>)	
5/221	• {Ergometry, e.g. by using bicycle type appar	
5/222	• • {combined with detection or measurement	of
5/224	physiological parameters, e.g. heart rate}	
5/224 5/225	• {Measuring muscular strength}	
5/225	• {of the fingers, e.g. by monitoring hand-gr force}	ıр
5/227	• {of constricting muscles, i.e. sphincters}	
5/228	 (of constricting induces, i.e. spinicers) (of masticatory organs, e.g. detecting dent 	al
5/220	force}	ui
5/24	Detecting, measuring or recording bioelectric o	r
	biomagnetic signals of the body or parts thereof	
	WARNING	
	Group <u>A61B 5/24</u> is impacted by reclassific into group <u>A61B 5/388</u> .	ation
	Groups A61B 5/24 and A61B 5/388 should	
	be considered in order to perform a complet	e
	search.	
5/2415	• {Measuring direct current [DC] or slowly va	rving
	biopotentials }	-)8
5/242	• Detecting biomagnetic fields, e.g. magnetic f	ïelds
	produced by bioelectric currents	
	WARNING	
	Group <u>A61B 5/242</u> is impacted by reclassification into group <u>A61B 5/248</u> .	
	0 1	1.1
	Groups <u>A61B 5/242</u> and <u>A61B 5/248</u> sho be considered in order to perform a compl	
	search.	iete
5/243	 specially adapted for magnetocardiographi [MCG] signals 	c
5/245	• specially adapted for magnetoencephalogr	aphic
	[MEG] signals	
5/246	• • • using evoked responses	
5/248	specially adapted for magnetoneurographic	с
	[MNG] signals, e.g. magnetospinographic [MSG] signals	
	WARNING	
	Group A61B 5/248 is incomplete pendi	no
	reclassification of documents from grou	
	A61B 5/242.	- r
	Groups A61B 5/242 and A61B 5/248	

should be considered in order to perform a complete search.

5/25 . Bioelectric electrodes therefor

WARNING

Group <u>A61B 5/25</u> is impacted by reclassification into groups <u>A61B 5/251</u>, <u>A61B 5/254</u>, A61B 5/256, A61B 5/257, <u>A61B 5/26</u>, A61B 5/262, A61B 5/263, <u>A61B 5/265</u>, A61B 5/266, A61B 5/268, <u>A61B 5/274</u>, A61B 5/271, A61B 5/273, <u>A61B 5/279</u>, A61B 5/276, A61B 5/277, <u>A61B 5/279</u>, A61B 5/28, A61B 5/288, <u>A61B 5/29</u>, A61B 5/293, A61B 5/294, <u>A61B 5/297</u>, and A61B 5/367.

All groups listed in this Warning should be considered in order to perform a complete search.

5/251 . . . Means for maintaining electrode contact with the body

WARNING

Groups A61B 5/251, A61B 5/254, A61B 5/256 and A61B 5/257 are incomplete pending reclassification of documents from group A61B 5/25.

All groups listed in this Warning should be considered in order to perform a complete search.

5/252 . . . by suction

WARNING

Group <u>A61B 5/252</u> is impacted by reclassification into groups <u>A61B 5/28</u>, <u>A61B 5/282</u>, <u>A61B 5/283</u>, <u>A61B 5/285</u>, <u>A61B 5/287</u>, <u>A61B 5/288</u>, <u>A61B 5/29</u> and <u>A61B 5/293</u>.

All groups listed in this Warning should be considered in order to perform a complete search.

5/254 . . . by clips

5/256	•••• Wearable electrodes, e.g. having straps or
	bands
5/257	• • • using adhesive means, e.g. adhesive pads or
	tapes

. . . . using conductive adhesive means, e.g. gels

WARNING

Group <u>A61B 5/259</u> is impacted by reclassification into groups <u>A61B 5/28</u>, <u>A61B 5/282</u>, <u>A61B 5/283</u>, <u>A61B 5/285</u>, <u>A61B 5/287</u>, <u>A61B 5/288</u>, <u>A61B 5/29</u> and <u>A61B 5/293</u>.

All groups listed in this Warning should be considered in order to perform a complete search. the

5/26	• • • maintaining contact between the body and
0/20	electrodes by the action of the subjects, e.g.
	by placing the body on the electrodes or by
	grasping the electrodes

WARNING

Group <u>A61B 5/26</u> is incomplete pending reclassification of documents from group A61B 5/25.

Groups <u>A61B 5/25</u> and <u>A61B 5/26</u> should be considered in order to perform a complete search.

5/262 . . . Needle electrodes

5/265

5/266

5/268

5/27

WARNING

Group <u>A61B 5/262</u> is incomplete pending reclassification of documents from group A61B 5/25.

Groups <u>A61B 5/25</u> and <u>A61B 5/262</u> should be considered in order to perform a complete search.

5/263 . . . characterised by the electrode materials

WARNING

Groups <u>A61B 5/263</u> - <u>A61B 5/27</u> are incomplete pending reclassification of documents from group <u>A61B 5/25</u> .
All groups listed in this Warning should be considered in order to perform a complete search.
• • • • containing silver or silver chloride
containing electrolytes, conductive gels or
pastes
• • • • containing conductive polymers, e.g.
PEDOT:PSS polymers
Conductive fabrics or textiles
Arrangements of electrodes with cords, cables

5/271 . . Arrangements of electrodes with cords, cables or leads, e.g. single leads or patient cord assemblies

WARNING

Groups <u>A61B 5/271</u> and <u>A61B 5/273</u> are incomplete pending reclassification of documents from group <u>A61B 5/25</u>.

Groups <u>A61B 5/25</u>, <u>A61B 5/271</u> and <u>A61B 5/273</u> should be considered in order to perform a complete search.

5/273 . . . Connection of cords, cables or leads to electrodes

5/259

5/274

5/276

5/277

5/279

5/28

• • • • using snap or button fasteners	5/282	• • • • •	Holders for multiple electrodes (for
WARNING			introduction into the body A61B 5/287)
Group <u>A61B 5/274</u> is incomplete pending reclassification of documents from group <u>A61B 5/25</u> . Group <u>A61B 5/274</u> is also impacted by reclassification into groups			WARNING Group <u>A61B 5/282</u> is incomplete pending reclassification of documents from groups <u>A61B 5/252</u> , <u>A61B 5/259</u> , <u>A61B 5/274</u> and <u>A61B 5/276</u> .
A61B 5/28, A61B 5/282, A61B 5/283, A61B 5/285, A61B 5/287, A61B 5/288 and A61B 5/293.			All groups listed in this Warning should be considered in order to perform a complete search.
All groups listed in this Warning should be considered in order to perform a complete search.	5/283		Invasive WARNING
Protection against electrode failure			Group <u>A61B 5/283</u> is incomplete
WARNING			pending reclassification of documents from groups A61B 5/252, A61B 5/259, A61B 5/274 and A61B 5/276.
Group <u>A61B 5/276</u> is incomplete pending reclassification of documents from group <u>A61B 5/25</u> .			Group <u>A61B 5/283</u> is also impacted by reclassification into groups <u>A61B 5/29</u> and <u>A61B 5/293</u> .
Group <u>A61B 5/276</u> is also impacted by reclassification into groups <u>A61B 5/28</u> , <u>A61B 5/282</u> , <u>A61B 5/283</u> , <u>A61B 5/285</u> , <u>A61B 5/287</u> , <u>A61B 5/288</u> , <u>A61B 5/29</u> and A61B 5/293.			All groups listed in this Warning should be considered in order to perform a complete search.
All groups listed in this Warning should be considered in order to perform a complete	5/285	••••	• Endotracheal, oesophageal or gastric probes
search.			WARNING
• • Capacitive electrodes			Group <u>A61B 5/285</u> is incomplete pending reclassification of
WARNING Group <u>A61B 5/277</u> is incomplete pending reclassification of documents from group			documents from groups <u>A61B 5/252</u> , <u>A61B 5/259</u> , <u>A61B 5/274</u> and <u>A61B 5/276</u> .
A61B 5/25. Groups A61B 5/25 and A61B 5/277 should be considered in order to perform a			All groups listed in this Warning should be considered in order to perform a complete search.
complete search.	5/287		• Holders for multiple electrodes,
specially adapted for particular uses			e.g. electrode catheters for electrophysiological study [EPS]
WARNING			WARNING
Group <u>A61B 5/279</u> is incomplete pending reclassification of documents from group <u>A61B 5/25</u> . Groups <u>A61B 5/25</u> and <u>A61B 5/279</u> should be considered in order to perform a complete search.			Group <u>A61B 5/287</u> is incomplete pending reclassification of documents from groups <u>A61B 5/252</u> , <u>A61B 5/259</u> , <u>A61B 5/274</u> and <u>A61B 5/276</u> .
for electrocardiography [ECG]			All groups listed in this Warning should be considered in order to
WARNING			perform a complete search.
Groups <u>A61B 5/28</u> and <u>A61B 5/288</u> are incomplete pending reclassification	5/288	••••	• for foetal cardiography, e.g. scalp electrodes
of documents from groups <u>A61B 5/25</u> , <u>A61B 5/252</u> , <u>A61B 5/259</u> , <u>A61B 5/274</u>	5/29	••••	1 0 1
and <u>A61B 5/276</u> .			WARNING
All groups listed in this Warning should be considered in order to perform a complete search.			Group <u>A61B 5/29</u> is incomplete pending reclassification of documents from groups <u>A61B 5/25</u> , <u>A61B 5/252</u> , <u>A61B 5/259</u> , <u>A61B 5/276</u> and <u>A61B 5/283</u> .
			All groups listed in this Warning should be considered in order to perform a complete search.

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5/301

cho-physical tests		A61B
•••• for electroencephalography [EEG] <u>WARNING</u> Group <u>A61B 5/291</u> is impacted by	5/302	 for capacitive or ionised electrodes, e.g. metal- oxide-semiconductor field-effect transistors [MOSFET] WARNINC
 reclassification into group <u>A61B 5/293</u>. Groups <u>A61B 5/291</u> and <u>A61B 5/293</u> should be considered in order to perform a complete search. Invasive 		WARNINGGroup A61B 5/302 is impacted by reclassification into groups A61B 5/305 and A61B 5/308.Groups A61B 5/302, A61B 5/305 and A61B 5/308 should be considered in order
<u>WARNING</u> Group <u>A61B 5/293</u> is incomplete pending reclassification of documents	5/303	 to perform a complete search. {Patient cord assembly, e.g. cable harness} WARNING
from groups <u>A61B 5/25</u> , <u>A61B 5/252</u> , <u>A61B 5/259</u> , <u>A61B 5/274</u> , <u>A61B 5/276</u> , <u>A61B 5/283</u> and <u>A61B 5/291</u> . All groups listed in this Warning should be considered in order to perform a complete search. for nerve conduction study [NCS]		Group A61B 5/303 is impacted by reclassification into groups A61B 5/305 and A61B 5/308. Groups A61B 5/303, A61B 5/305 and A61B 5/308 should be considered in order to perform a complete search.
WARNING	5/304	Switching circuits
Group A61B 5/294 is incomplete pending reclassification of documents from groups A61B 5/25 and A61B 5/388. Groups A61B 5/25, A61B 5/388 and A61B 5/294 should be considered in order to perform a complete search. for electromyography [EMG]		WARNINGGroup A61B 5/304 is impacted by reclassification into groups A61B 5/305 and A61B 5/308.Groups A61B 5/304, A61B 5/305 and A61B 5/308 should be considered in order to perform a complete search.
• • • • for electrooculography [EOG]: for electroretinography [ERG]	5/305	Common mode rejection <u>WARNING</u>
WARNINGGroup A61B 5/297 is incomplete pending reclassification of documents from groups A61B 5/25 and A61B 5/398.Groups A61B 5/25, A61B 5/398 and A61B 5/297 should be considered in order to perform a complete search.		Group <u>A61B 5/305</u> is incomplete pending reclassification of documents from groups <u>A61B 5/30</u> , <u>A61B 5/301</u> , <u>A61B 5/302</u> , <u>A61B 5/303</u> and <u>A61B 5/304</u> . All groups listed in this Warning should be considered in order to perform a complete search.
• • Input circuits therefor	5/307	specially adapted for particular uses
WARNING		WARNING
Group <u>A61B 5/30</u> is impacted by reclassification into groups <u>A61B 5/305</u> , <u>A61B 5/307</u> , <u>A61B 5/308</u> , <u>A61B 5/31</u> , <u>A61B 5/311</u> , <u>A61B 5/313</u> and <u>A61B 5/315</u> . All groups listed in this Warning should be considered in order to perform a complete search.		Groups <u>A61B 5/307</u> , <u>A61B 5/31</u> , <u>A61B 5/313</u> and <u>A61B 5/315</u> are incomplete pending reclassification of documents from group <u>A61B 5/30</u> . All groups listed in this Warning should be considered in order to perform a complete search.
• • providing electrical separation, e.g. by using isolating transformers or optocouplers	5/308	• • • • for electrocardiography [ECG] WARNING

WARNING

Group A61B 5/301 is impacted by reclassification into groups A61B 5/305 and A61B 5/308.

Groups A61B 5/301, A61B 5/305 and A61B 5/308 should be considered in order to perform a complete search.

> 5/31 . . . for electroencephalography [EEG]

complete search.

Group A61B 5/308 is incomplete pending reclassification of documents from groups

A61B 5/30, A61B 5/301, A61B 5/302,

All groups listed in this Warning should

be considered in order to perform a

A61B 5/303 and A61B 5/304.

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for nerve conduction study [NCS]	5/329	Load diagnosis, e.g. cardiac stress tests
WARNING		WARNING
Group <u>A61B 5/311</u> is incomplete pending reclassification of documents from groups <u>A61B 5/30</u> and <u>A61B 5/388</u> . Groups <u>A61B 5/30</u> , <u>A61B 5/388</u> and <u>A61B 5/311</u> should be considered in order to perform a complete search.		Group <u>A61B 5/329</u> is incomplete pending reclassification of documents from groups <u>A61B 5/316</u> and <u>A61B 5/318</u> . Groups <u>A61B 5/316</u> , <u>A61B 5/318</u> and <u>A61B 5/329</u> should be considered in order to perform a complete search.
 for electromyography [EMG] for electrooculography [EOG]; for electroretinography [ERG] 	5/33	specially adapted for cooperation with other devices <u>WARNING</u>
 Modalities, i.e. specific diagnostic methods <u>WARNING</u> Group <u>A61B 5/316</u> is impacted by 		Group <u>A61B 5/33</u> is incomplete pending reclassification of documents from groups <u>A61B 5/316</u> and <u>A61B 5/318</u> .
reclassification into groups <u>A61B 5/321</u> , <u>A61B 5/329</u> , <u>A61B 5/33</u> , <u>A61B 5/338</u> , <u>A61B 5/343</u> , <u>A61B 5/346</u> , <u>A61B 5/347</u> , <u>A61B 5/353</u> , <u>A61B 5/355</u> , <u>A61B 5/357</u> ,		Groups <u>A61B 5/316</u> , <u>A61B 5/318</u> and <u>A61B 5/33</u> should be considered in order to perform a complete search.
<u>A61B 5/358, A61B 5/36, A61B 5/367,</u> <u>A61B 5/372, A61B 5/374, A61B 5/388,</u> <u>A61B 5/395</u> and <u>A61B 5/397</u> .	5/332 5/333	 Portable devices specially adapted therefor Recording apparatus specially adapted therefor
All groups listed in this Warning should be considered in order to perform a complete search.		WARNING Group A61B 5/333 is impacted by reclassification into group A61B 5/338.
Heart-related electrical modalities, e.g. electrocardiography [ECG]		Groups <u>A61B 5/333</u> and <u>A61B 5/338</u> should be considered in order to perform a complete search.
WARNING		-
Group <u>A61B 5/318</u> is impacted by reclassification into groups <u>A61B 5/321</u> , <u>A61B 5/329</u> and <u>A61B 5/33</u> . All groups listed in this Warning should be	5/335 5/336 5/337	 using integrated circuit memory devices Magnetic recording apparatus {Playback at speeds other than the recording speed}
considered in order to perform a complete search.	5/338	Recording by printing on paper WARNING
 Circuits for simulating ECG signals Accessories or supplementary instruments therefor, e.g. cord hangers 		Group <u>A61B 5/338</u> is incomplete pending reclassification of documents from groups <u>A61B 5/316</u> and <u>A61B 5/333</u> .
WARNING Group <u>A61B 5/321</u> is incomplete pending reclassification of documents from groups <u>A61B 5/316</u> and <u>A61B 5/318</u> .		Groups <u>A61B 5/316</u> , <u>A61B 5/333</u> and <u>A61B 5/338</u> should be considered in order to perform a complete search.
Groups <u>A61B 5/316</u> , <u>A61B 5/318</u> and <u>A61B 5/321</u> should be considered in order to perform a complete search.	5/339	Displays specially adapted therefor <u>WARNING</u>
 Physical templates or devices for measuring ECG waveforms, e.g. electrocardiograph rulers or calipers (by template matching <u>A61B 5/35</u>) Means for providing electrolytes, e.g. 		Group <u>A61B 5/339</u> is impacted by reclassification into group <u>A61B 5/343</u> . Groups <u>A61B 5/339</u> and <u>A61B 5/343</u> should be considered in order to perform a complete search.
 Preparing electrode sites, e.g. by abrasion Generation of artificial ECG signals based on measured signals, e.g. to compensate for missing leads 	5/341	Vectorcardiography [VCG]

5/343	•••• Potential distribution indication	5/357	Detecting U-waves
	<u>WARNING</u>		WARNING
	Group <u>A61B 5/343</u> is incomplete pending reclassification of documents from groups <u>A61B 5/316</u> and <u>A61B 5/339</u> .		Group <u>A61B 5/357</u> is incomplete pending reclassification of documents from groups <u>A61B 5/316</u> and <u>A61B 5/349</u> .
5/344	Groups <u>A61B 5/316</u> , <u>A61B 5/339</u> and <u>A61B 5/343</u> should be considered in order to perform a complete search. ••••• Foetal cardiography		Groups <u>A61B 5/316</u> , <u>A61B 5/349</u> and <u>A61B 5/357</u> should be considered in order to perform a complete search.
5/346	Analysis of electrocardiograms	5/358	Detecting ST segments
	WARNING		WARNING
	Groups <u>A61B 5/346</u> and <u>A61B 5/347</u> are incomplete pending reclassification of documents from group <u>A61B 5/316</u> .		Group <u>A61B 5/358</u> is incomplete pending reclassification of documents from groups <u>A61B 5/316</u> and <u>A61B 5/349</u> .
	Groups <u>A61B 5/316</u> , <u>A61B 5/346</u> and <u>A61B 5/347</u> should be considered in order to perform a complete search.		Groups <u>A61B 5/316</u> , <u>A61B 5/349</u> and <u>A61B 5/358</u> should be considered in order to perform a
5/347	Detecting the frequency distribution of signals		complete search.
5/349	••••••••••••••••••••••••••••••••••••••	5/36	Detecting PQ interval, PR interval or QT interval
	WARNING		WARNING
	Group <u>A61B 5/349</u> is impacted by reclassification into groups <u>A61B 5/353</u> , <u>A61B 5/355</u> , <u>A61B 5/357</u> , <u>A61B 5/358</u> and <u>A61B 5/36</u> .		Group <u>A61B 5/36</u> is incomplete pending reclassification of documents from groups <u>A61B 5/316</u> and <u>A61B 5/349</u> .
	All groups listed in this Warning should be considered in order to perform a complete search.		Groups <u>A61B 5/316</u> , <u>A61B 5/349</u> and <u>A61B 5/36</u> should be considered in order to perform a complete search.
5/35	by template matching	5/361	Detecting fibrillation
5/352	Detecting R peaks, e.g. for synchronising diagnostic apparatus;	5/363	Detecting tachycardia or bradycardia
5/353	Estimating R-R interval	5/364	••••• Detecting abnormal ECG interval, e.g. extrasystoles, ectopic heartbeats
0,000	WARNING	5/366	••••• Detecting abnormal QRS complex, e.g. widening
	Group <u>A61B 5/353</u> is incomplete pending reclassification of documents from groups <u>A61B 5/316</u>	5/367	Electrophysiological study [EPS], e.g. electrical activation mapping or electro- anatomical mapping
	and <u>A61B 5/349</u> .		WARNING
	Groups <u>A61B 5/316</u> , <u>A61B 5/349</u> and <u>A61B 5/353</u> should be considered in order to perform a complete search.		Group <u>A61B 5/367</u> is incomplete pending reclassification of documents from groups <u>A61B 5/25</u> and <u>A61B 5/316</u> .
5/355	Detecting T-waves		Groups <u>A61B 5/25</u> , <u>A61B 5/316</u> and <u>A61B 5/367</u> should be considered in order to perform a complete search.
	WARNING Group A61B 5/355 is incomplete	5/369	
	pending reclassification of documents from groups <u>A61B 5/316</u>	5/369	 Electroencephalography [EEG] (devices for psychotechnics <u>A61B 5/16</u>)
	and <u>A61B 5/349</u> .		WARNING
	Groups <u>A61B 5/316</u> , <u>A61B 5/349</u> and <u>A61B 5/355</u> should be considered in order to perform a complete search.		Group <u>A61B 5/369</u> is impacted by reclassification into groups <u>A61B 5/37</u> , <u>A61B 5/372</u> , <u>A61B 5/384</u> and <u>A61B 5/386</u> . All groups listed in this Warning should be
	·····		considered in order to perform a complete search.

5/37	• • • •	Intracranial electroencephalography [IC- EEG], e.g. electrocorticography [ECoG]	5/384		Recording apparatus or displays specially adapted therefor
		WARNING			WARNING
		Group <u>A61B 5/37</u> is incomplete pending reclassification of documents from group <u>A61B 5/369</u> .			Group <u>A61B 5/384</u> is incomplete pending reclassification of documents from group <u>A61B 5/369</u> .
		Groups <u>A61B 5/369</u> and <u>A61B 5/37</u> should be considered in order to perform a complete search.			Groups <u>A61B 5/369</u> and <u>A61B 5/384</u> should be considered in order to perform a complete search.
5/372	••••	Analysis of electroencephalograms	5/386		Accessories or supplementary instruments therefor
		WARNING			
		Group <u>A61B 5/372</u> is incomplete pending reclassification of documents from groups <u>A61B 5/316</u> and <u>A61B 5/369</u> . Groups <u>A61B 5/316</u> , <u>A61B 5/369</u> and			WARNING Group <u>A61B 5/386</u> is incomplete pending reclassification of documents from group <u>A61B 5/369</u> .
5/374		 <u>A61B 5/372</u> should be considered in order to perform a complete search. Detecting the frequency distribution of 			Groups <u>A61B 5/369</u> and <u>A61B 5/386</u> should be considered in order to perform a complete search.
5/5/1		signals, e.g. detecting delta, theta, alpha, beta or gamma waves	5/388		Jerve conduction study, e.g. detecting action otential of peripheral nerves
		WARNING		V	VARNING
		Group <u>A61B 5/374</u> is incomplete pending reclassification of documents from group <u>A61B 5/316</u> .			Group <u>A61B 5/388</u> is incomplete pending reclassification of documents from groups <u>A61B 5/24</u> and <u>A61B 5/316</u> .
		Groups <u>A61B 5/316</u> and <u>A61B 5/374</u> should be considered in order to perform a complete search.			Group <u>A61B 5/388</u> is also impacted by reclassification into groups <u>A61B 5/294</u> and <u>A61B 5/311</u> .
5/375 5/377		using biofeedback using evoked responses			All groups listed in this Warning should be considered in order to perform a complete search.
		WARNING	5/389	г	lastromusgraphy [EMC]
		Group <u>A61B 5/377</u> is impacted by reclassification into group <u>A61B 5/383</u> .	5/369		Electromyography [EMG] VARNING
		Groups <u>A61B 5/377</u> and <u>A61B 5/383</u> should be considered in order to perform a complete search.			Group A61B 5/389 is impacted by reclassification into group A61B 5/395. Groups A61B 5/389 and A61B 5/395
5/378		• Visual stimuli			should be considered in order to perform a
5/38		Acoustic or auditory stimuli			complete search.
5/381		Olfactory or gustatory stimuli	5/391		of genito-urinary organs
5/383	• • • •	Somatosensory stimuli, e.g. electric	5/392		Detecting gastrointestinal contractions
		stimulation	5/394	• • • •	specially adapted for electroglottography or electropalatography
		WARNING	5/395		Details of stimulation, e.g. nerve stimulation
		Group <u>A61B 5/383</u> is incomplete pending reclassification of documents			to elicit EMG response
		from group <u>A61B 5/377</u> .			WARNING
		Groups <u>A61B 5/377</u> and <u>A61B 5/383</u> should be considered in order to perform a complete search.			Group <u>A61B 5/395</u> is incomplete pending reclassification of documents from groups <u>A61B 5/316</u> and <u>A61B 5/389</u> .

Groups <u>A61B 5/316</u>, <u>A61B 5/389</u> and <u>A61B 5/395</u> should be considered in order to perform a complete search.

5/397	Analysis of electromyograms	5/42
	WARNING	
	Group <u>A61B 5/397</u> is incomplete pending reclassification of documents from group <u>A61B 5/316</u> . Groups <u>A61B 5/316</u> and <u>A61B 5/397</u> should be considered in order to perform a complete search.	5/4205 5/4211 5/4216 5/4222
5/398	• • • Electrooculography [EOG], e.g. detecting nystagmus; Electroretinography [ERG]	5/4227
	WARNING	5/4233
	Group A61B 5/398 is impacted by	5/4238
	reclassification into group A61B 5/297.	5/4244
	Groups A61B 5/398 and A61B 5/297	5/425
	should be considered in order to perform a	5/4255
	complete search.	5/4261
5/40	• {Detecting, measuring or recording for evaluating	5/1000
	the nervous system (A61B 5/4806, A61B 5/4821,	5/4266 5/4272
	A61B 5/4824 take precedence)}	5/4272
5/4005	• {for evaluating the sensory system (A61B 5/12, $(A61B 5/12, C1B 5/(1058))$	5/4283
5/4011	<u>A61B 5/4058</u> take precedence)} • • {Evaluating olfaction, i.e. sense of smell}	5/ 1205
5/4011	 . {Evaluating offaction, i.e. sense of smen} . {Evaluating sense of taste} 	5/4288
5/4023	 . {Evaluating sense of taste} . {Evaluating sense of balance} 	5/4294
5/4029	 for evaluating the peripheral nervous systems 	5/43
0/ 1022	(A61B 5/24 takes precedence)	
5/4035	• • • {Evaluating the autonomic nervous system}	5/4306
5/4041	• • • {Evaluating nerves condition}	5/4212
5/4047	• • • {afferent nerves, i.e. nerves that relay	5/4312
	impulses to the central nervous system}	5/4318
5/4052	• • • {efferent nerves, i.e. nerves that relay	0, 1010
5/4058	impulses from the central nervous system}. {for evaluating the central nervous system	5/4325
5/4058	(A61B 5/4806, A61B 5/4821 take precedence)}	
5/4064	• • {Evaluating the brain (<u>A61B 5/031</u> ,	5/4331
	A61B 5/369, A61B 5/14553 take precedence)}	5/4007
5/407	• • • {Evaluating the spinal cord (<u>A61B 5/4896</u>	5/4337 5/4343
	takes precedence)}	5/4545
5/4076	• {Diagnosing or monitoring particular conditions	5/435
	of the nervous system (<u>A61B 5/4821</u> , <u>A61B 5/4824</u> take precedence)}	5/4356
5/4082	• • {Diagnosing or monitoring movement diseases,	
	e.g. Parkinson, Huntington or Tourette}	5/4362
5/4088	{Diagnosing of monitoring cognitive diseases,	5/4368
	e.g. Alzheimer, prion diseases or dementia}	5/4375
5/4094	• • • {Diagnosing or monitoring seizure diseases,	5/4381
	e.g. epilepsy}	5/4387
5/41	• {Detecting, measuring or recording for evaluating	5/4393
5/411	the immune or lymphatic systems}• {Detecting or monitoring allergy or intolerance	5/4575
5/411	reactions to an allergenic agent or substance}	5/44
5/412	• {Detecting or monitoring sepsis}	
5/413	• {Monitoring transplanted tissue or organ, e.g. for	
	possible rejection reactions after a transplant}	5/441
5/414	• • {Evaluating particular organs or parts of the	5/442
	immune or lymphatic systems}	
5/415	• • {the glands, e.g. tonsils, adenoids or thymus}	5/443
5/416 5/417	• • • {the spleen}	5/775
5/417 5/418	 . {the bone marrow} . {lymph vessels, ducts or nodes} 	5/444
5/ 110	· · · (17111ph ressels, duets of hodes)	

5/42	• {Detecting, measuring or recording for evaluating
	the gastrointestinal, the endocrine or the exocrine systems (A61B 1/00, A61B 5/4857, A61B 5/486,
	<u>A61B 5/4866, A61B 5/4869</u> take precedence)}
5/4205	• {Evaluating swallowing}
5/4211	• {Diagnosing or evaluating reflux}
5/4216	• • {Diagnosing or evaluating gastrointestinal ulcers}
5/4222	• • {Evaluating particular parts, e.g. particular
	organs}
5/4227	• • • {endocrine glands, i.e. thyroid, adrenals,
5/1022	hypothalamic, pituitary}
5/4233 5/4238	 {oesophagus} {stomach}
5/4238 5/4244	{liver}
5/425	• • • {pancreas}
5/4255	• • {Intestines, colon or appendix}
5/4261	• Evaluating exocrine secretion production
	(A61B 3/101 takes precedence)}
5/4266	• • • {sweat secretion}
5/4272	• • • {sebum secretion}
5/4277	{saliva secretion}
5/4283	• • • {gastrointestinal secretions, e.g. bile
E/1000	production}
5/4288 5/4294	 {mammary secretions} {vaginal secretions}
5/43	{Vaginal secretions}{Detecting, measuring or recording for evaluating
5/45	the reproductive systems}
5/4306	• { for evaluating the female reproductive systems,
	e.g. gynaecological evaluations}
5/4312	• • • {Breast evaluation or disorder diagnosis
	(A61B 5/0091 takes precedence)}
5/4318	(Evaluation of the lower reproductive system $(A \in ID = 5/42.42)$
5/4325	 (<u>A61B 5/4343</u> takes precedence)} {of the uterine cavities, e.g. uterus, fallopian
5/4525	tubes, ovaries}
5/4331	• • • • {of the cervix ($A61B 5/435$ takes
	precedence)}
5/4337	• • • • {of the vagina}
5/4343	• • • {Pregnancy and labour monitoring, e.g. for
	labour onset detection}
5/435	{Assessing cervix alteration or dilation}
5/4356	{Assessing uterine contractions (<u>A61B 5/033</u> takes precedence)}
5/4362	• • • {Assessing foetal parameters}
5/4368	• • • {Assessing foctar parameters} • • • {Sexual arousal evaluation}
5/4375	 . {for evaluating the male reproductive system}
5/4381	• • {Prostate evaluation or disorder diagnosis}
5/4387	• • {Testicles, seminal vesicles or sperm ducts
	evaluation}
5/4393	• • • {Sexual arousal or erectile dysfunction
	evaluation, e.g. tumescence evaluation}
5/44	• {Detecting, measuring or recording for evaluating
	the integumentary system, e.g. skin, hair or nails (A61B 5/117 takes precedence)}
5/441	• {Skin evaluation, e.g. for skin disorder diagnosis}
5/442	 (Skin evaluation, e.g. for skin disorder diagnosis) (Evaluating skin mechanical properties,
	e.g. elasticity, hardness, texture, wrinkle
	assessment}
5/443	• • • {Evaluating skin constituents, e.g. elastin,
	melanin, water}
5/444	• • {Evaluating skin marks, e.g. mole, nevi,
	tumour, scar}

5/445	• • {Evaluating skin irritation or skin trauma, e.g.
	rash, eczema, wound, bed sore}
5/446	• • • {Scalp evaluation or scalp disorder diagnosis,
	e.g. dandruff}
5/447	• • • {specially adapted for aiding the prevention of
	ulcer or pressure sore development, i.e. before
5/440	the ulcer or sore has developed}
5/448	• {Hair evaluation, e.g. for hair disorder diagnosis}
5/449	• {Nail evaluation, e.g. for nail disorder diagnosis}
5/45	• {For evaluating or diagnosing the musculoskeletal
	system or teeth (A61B 5/1036, A61B 5/1074, A61B 7/006 take precedence))
5/4504	$\frac{A61B 7/006}{(A \times 10^{-5})^{45}}$
5/4504	. {Bones (<u>A61B 5/4547</u> takes precedence)}
5/4509	{Bone density determination}
5/4514	• • {Cartilage}
5/4519	• $\{\text{Muscles}(\underline{A61B 5/389}, \underline{A61B 5/224} \text{ take})\}$
5/4500	precedence)}
5/4523	• {Tendons}
5/4528	• {Joints (<u>A61B 5/4533</u> , <u>A61B 5/4538</u> take
E (4522	precedence)}
5/4533	• • {Ligaments}
5/4538	• • {Evaluating a particular part of the
	muscoloskeletal system or a particular medical condition}
5/4542	• • {Evaluating the mouth, e.g. the jaw}
5/4547	• • • {Evaluating the mouth, e.g. the Jaw }
5/4552	•••• {Evaluating teen}
5/4552	gums or tongue}
5/4557	• • • {Evaluating bruxism}
5/4561	• • • {Evaluating static posture, e.g. undesirable
5/4501	back curvature (<u>A61B 5/1116</u> takes
	precedence)}
5/4566	• • {Evaluating the spine (<u>A61B 5/4561</u> takes
	precedence)}
5/4571	• • • {Evaluating the hip}
5/4576	• • {Evaluating the shoulder}
5/458	• • • {Evaluating the elbow}
5/4585	• • {Evaluating the knee}
5/459	• • • {Evaluating the wrist}
5/4595	• • • {Evaluating the ankle}
5/48	• {Other medical applications}
5/4803	• {Speech analysis specially adapted for diagnostic
	purposes }
5/4806	• {Sleep evaluation (<u>A61B 5/4821</u> takes
	precedence; devices for inducing sleep
	<u>A61M 21/02</u>)}
5/4809	• • • {Sleep detection, i.e. determining whether a
	subject is asleep or not}
5/4812	• • {Detecting sleep stages or cycles}
5/4815	• • • {Sleep quality}
5/4818	• • • {Sleep apnoea}
5/4821	• • {Determining level or depth of anaesthesia
	(<u>A61B 5/1106</u> takes precedence)}
5/4824	• • {Touch or pain perception evaluation
	(A61B 5/4821 takes precedence)}
5/4827	• • {assessing touch sensitivity, e.g. for evaluation
	of pain threshold}
5/483	• • • {by thermal stimulation}
5/4833	• • {Assessment of subject's compliance to
E/402 -	treatment}
5/4836	• {Diagnosis combined with treatment in closed-
	loop systems or methods (<u>A61B 5/0036</u> takes
	precedence)}

5/4839	• • • {combined with drug delivery}
5/4842	• • {Monitoring progression or stage of a disease}
5/4845	• • {Toxicology, e.g. by detection of alcohol, drug or toxic products (<u>A61B 5/4848</u> takes precedence)}
5/4848	• {Monitoring or testing the effects of treatment, e.g. of medication}
5/4851	• {Prosthesis assessment or monitoring}
5/4854	• {Diagnosis based on concepts of traditional oriental medicine}
5/4857	• {Indicating the phase of biorhythm (clocks or
5/4057	watches with indicators for biological cycles <u>G04B 19/264</u>)}
5/486	• {Bio-feedback (<u>A61B 5/375</u> takes precedence)}
5/4863	 (Dio recubick (<u>Horb 5/5/5</u> takes precedence)) (Measuring or inducing nystagmus)
5/4866	 Evaluating metabolism (<u>A61B 5/083</u> takes)
	precedence)}
5/4869	• • {Determining body composition}
5/4872	• • • {Body fat}
5/4875	• • • {Hydration status, fluid retention of the body}
5/4878	• • • • {Evaluating oedema}
5/4881	{Determining interstitial fluid distribution or
	content within body tissue (measuring analytes in interstitial fluid in-vivo <u>A61B 5/1451</u>)}
5/4884	• • {inducing physiological or psychological stress,
	e.g. applications for stress testing}
5/4887	• • {Locating particular structures in or on the body}
5/489	{Blood vessels}
5/4893	• • • {Nerves}
5/4896	• • {Epidural space}
5/68	• {Arrangements of detecting, measuring or recording means, e.g. sensors, in relation to patient}
5/6801	• {specially adapted to be attached to or worn on the body surface}
5/6802	• • {Sensor mounted on worn items}
5/6803	• • • • {Head-worn items, e.g. helmets, masks,
	headphones or goggles}
5/6804	{Garments; Clothes}
5/6805	•••• {Vests}
5/6806	{Gloves}
5/6807	• • • • {Footwear}
5/6808	•••• {Diapers}
5/681	{Wristwatch-type devices}
5/6811	{External prosthesis}
5/6812	{Orthopaedic devices}
5/6813	• • • {Specially adapted to be attached to a specific body part (<u>A61B 5/6802</u> takes precedence)}
5/6814	•••• {Head}
5/6815	\ldots {Ear}
5/6816	\ldots {Ear lobe}
5/6817	\ldots
5/6819	••••• {Nose}
5/682	• • • • {Mouth, e.g., oral cavity; tongue; Lips; Teeth}
5/6821	••••• {Eye}
5/6822	••••••••••••••••••••••••••••••••••••••
5/6823	•••• {Trunk, e.g., chest, back, abdomen, hip}
5/6824	• • • • {Arm or wrist}
5/6825	• • • • {Hand}
5/6826	• • • • • {Finger}
5/6828	•••• {Leg}
5/6829	• • • {Foot or ankle}
5/683	• • • {Means for maintaining contact with the body
	(A61B 5/6802 takes precedence)}

5/6831	• • • {Straps, bands or harnesses}	5/6885 {Monitoring or controlling sensor contact
5/6832	• • • { using adhesives (<u>A61B 5/259</u> takes	pressure}
	precedence)}	5/6886 {Monitoring or controlling distance between
5/6833	{Adhesive patches}	sensor and tissue}
5/68335	{including release sheets or liners}	5/6887 {mounted on external non-worn devices, e.g. non-
5/6834	{using vacuum}	medical devices}
5/6835	{Supports or holders, e.g., articulated arms}	5/6888 {Cabins}
5/6837	{Sutures}	5/6889 {Rooms}
5/6838	{Clamps or clips}	5/6891 {Furniture}
5/6839	• • • {Anchoring means, e.g. barbs}	$5/6892$ {Mats}
5/684	• • • {Indicating the position of the sensor on the	5/6893 {Cars}
	body}	5/6894 {Wheel chairs}
5/6841	{by using templates}	5/6895 {Sport equipment}
5/6842	• • • {by marking the skin}	5/6896 {Toys}
5/6843	• • • {Monitoring or controlling sensor contact pressure}	5/6897 • • • {Computer input devices, e.g. mice or keyboards}
5/6844	• • • {Monitoring or controlling distance between	5/6898 {Portable consumer electronic devices, e.g.
	sensor and tissue}	music players, telephones, tablet computers}
5/6846	• • {specially adapted to be brought in contact with	5/70 • {Means for positioning the patient in relation to the
	an internal body part, i.e. invasive}	detecting, measuring or recording means}
5/6847	• • • {mounted on an invasive device}	WARNING
5/6848	• • • • {Needles}	
5/6849	{in combination with a needle set}	Groups <u>A61B 5/70</u> - <u>A61B 5/708</u> are incomplete
5/685	{Microneedles}	pending reclassification of documents from
5/6851	• • • • {Guide wires}	group <u>A61B 5/055</u> .
5/6852	• • • {Catheters}	All groups listed in this Warning should be
5/6853	• • • • { with a balloon }	considered in order to perform a complete
5/6855	•••• {with a distal curved tip}	search.
5/6856	• • • • {with a distal loop}	5/702 {Posture restraints}
5/6857	• • • • {with a distal pigtail shape}	5/704 • • {Tables}
5/6858	• • • • • { with a distal basket, e.g. expandable	5/706 {Indicia not located on the patient, e.g. floor
	basket}	marking}
5/6859	•••• {with multiple distal splines}	5/708 {Breast positioning means}
5/686	• • • • {Permanently implanted devices, e.g.	5/72 • {Signal processing specially adapted for
	pacemakers, other stimulators, biochips	physiological signals or for diagnostic purposes
	(<u>A61B 5/6861</u> takes precedence)}	(character recognition, recognising digital ink,
5/6861	{Capsules, e.g. for swallowing or	document-oriented image-based pattern recognition
	implanting}	<u>G06V 30/00</u> ; recognition or understanding of postal
5/6862	{Stents}	images <u>G06V 30/424</u>)}
5/6864	• • • • {Burr holes}	5/7203 {for noise prevention, reduction or removal}
5/6865	{Access ports}	5/7207 {of noise induced by motion artifacts}
5/6866	• • • • {Extracorporeal blood circuits, e.g. dialysis	5/721 {using a separate sensor to detect motion
	circuits}	or using motion information derived from
5/6867	• • {specially adapted to be attached or implanted	signals other than the physiological signal to
	in a specific body part (<u>A61B 5/6847</u> takes	be measured}
	precedence)}	5/7214 {using signal cancellation, e.g. based on input of two identical physiological sensors
5/6868	•••• {Brain}	spaced apart, or based on two signals derived
5/6869	•••• {Heart}	from the same sensor, for different optical
5/687	{Oesophagus}	wavelengths }
5/6871	• • • • {Stomach}	5/7217 { of noise originating from a therapeutic or
5/6873	{Intestine}	surgical apparatus, e.g. from a pacemaker}
5/6874	{Bladder}	5/7221 •• {Determining signal validity, reliability or
5/6875	•••• {Uterus}	quality (<u>A61B 5/7207</u> and <u>A61B 5/7217</u> take
5/6876	{Blood vessel}	precedence)}
5/6877	•••• {Nerve}	5/7225 . {Details of analog processing, e.g. isolation
5/6878	•••• {Bone}	amplifier, gain or sensitivity adjustment, filtering,
5/6879	$\hfill \hfill $	baseline or drift compensation (A61B 5/30,
	(<u>A61B 5/6847</u> takes precedence)}	A61B 5/316 take precedence; transformers for
5/688	{using adhesives}	specific applications H01F 38/00; amplifiers
5/6882	• • • • {Anchoring means}	<u>H03F</u>)}
5/6883	• • • • {Sutures}	5/7228 • • {Signal modulation applied to the input signal
		· · · · · · · · · · · · · · · · · · ·
5/6884	{Clamps or clips}	sent to patient or subject; demodulation to recover the physiological signal (modulation H03C)}

5/7232	• {involving compression of the physiological signal, e.g. to extend the signal recording period}
5/7235	• {Details of waveform analysis (<u>A61B 5/349</u> takes
5/7239	precedence)}• { using differentiation including higher order
	derivatives}
5/7242	• • • {using integration}
5/7246	• • {using correlation, e.g. template matching or determination of similarity}
5/725	• • {using specific filters therefor, e.g. Kalman or adaptive filters (<u>A61B 5/316</u> take precedence)}
5/7253	• • {characterised by using transforms}
5/7257	• • • { using Fourier transforms }
5/726	• • • • {using Wavelet transforms}
5/7264	• • • {Classification of physiological signals or
	data, e.g. using neural networks, statistical classifiers, expert systems or fuzzy systems (neural networks <u>per se G06N 3/00</u> ; expert systems <u>per se G06N 5/00</u>)}
5/7267	{involving training the classification device}
5/7271	• • {Specific aspects of physiological measurement
	analysis (<u>A61B 5/316, A61B 5/349</u> and <u>A61B 5/374</u> take precedence)}
5/7275	• • • {Determining trends in physiological
	measurement data; Predicting development of a medical condition based on physiological measurements, e.g. determining a risk factor}
5/7278	{Artificial waveform generation or derivation,
	e.g. synthesising signals from measured signals (A61B 5/327 takes precedence)}
5/7282	• • • {Event detection, e.g. detecting unique
	waveforms indicative of a medical condition (<u>A61B 5/4094</u> , <u>A61B 5/4818</u> , <u>A61B 5/349</u> , <u>A61B 5/0823</u> take precedence)}
5/7285	• • • {for synchronising or triggering a physiological
	measurement or image acquisition with a physiological event or waveform, e.g. an ECG signal (<u>A61B 6/5205, A61B 6/541</u> , <u>A61B 8/5207, A61B 8/543</u> take precedence)}
5/7289	•••• {Retrospective gating, i.e. associating measured signals or images with a physiological event after the actual measurement or image acquisition, e.g. by simultaneously recording an additional
	physiological signal during the measurement or image acquisition }
5/7292	• • • {Prospective gating, i.e. predicting the occurrence of a physiological event for use as a synchronisation signal}
5/7296	• • • {for compensation of signal variation due
	to stress unintentionally induced in the patient, e.g. due to the stress of the medical environment or examination (deliberately inducing physiological or psychological stress A61B 5/4884)}
5/74	• {Details of notification to user or communication
-	with user or patient (indicating measured values <u>G01D 7/00</u>); user input means (input or output arrangements for computers <u>G06F 3/00</u>)}
5/7405	 • {using sound}
5/7403 5/741	 . {using sound} . {using synthesised speech}
5/7415	Sound rendering of measured values, e.g. by
3/1413	pitch or volume variation (<u>A61B 5/741</u> takes precedence)}

5/742	 {using visual displays (<u>A61B 5/339</u> takes precedence)}
5/7425	 (Displaying combinations of multiple images regardless of image source, e.g. displaying a reference anatomical image with a live image (geometric transforms for image registration <u>G06T 3/14</u>; enhancement using image fusion <u>G06T 5/50</u>; algorithms for registration of images G06T 7/30)
5/743	• • {Displaying an image simultaneously with additional graphical information, e.g. symbols, charts, function plots}
5/7435	 (Displaying user selection data, e.g. icons in a graphical user interface)
5/744	 (Displaying an avatar, e.g. an animated cartoon character)
5/7445	• • • {Display arrangements, e.g. multiple display units}
5/745	• • • {using a holographic display}
5/7455	 {characterised by tactile indication, e.g. vibration or electrical stimulation}
5/746	• • {Alarms related to a physiological condition, e.g. details of setting alarm thresholds or avoiding false alarms (alarms per se G08B)}
5/7465	• • {Arrangements for interactive communication between patient and care services, e.g. by using a telephone network (telemetry of measured physiological signal <u>A61B 5/0002</u>)}
5/747	• • {in case of emergency, i.e. alerting emergency services}
5/7475	 {User input or interface means, e.g. keyboard, pointing device, joystick}
5/748	• • • {Selection of a region of interest, e.g. using a graphics tablet}
5/7485	{Automatic selection of region of interest}
5/749	• • • {Voice-controlled interfaces}
5/7495	• • • { using a reader or scanner device, e.g. barcode scanner }
6/00	Apparatus or devices for radiation diagnosis; Apparatus or devices for radiation diagnosis combined with radiation therapy equipment (instruments measuring radiation intensity for application in the field of nuclear medicine, e.g. <u>in</u> vivo counting, <u>G01T 1/161</u> ; apparatus for taking X- ray photographs <u>G03B 42/02</u>) NOTE {In this <u>group</u> the following terms or expressions are used with the meaning indicated:
6/02	 "radiation" means ionising radiation, e.g. X rays or gamma rays, and does not cover other forms of radiation, e.g. optical}
6/02	• Arrangements for diagnosis sequentially in different planes; Stereoscopic radiation diagnosis
6/022	• {Stereoscopic imaging}
6/025	• {Tomosynthesis}
6/027 6/03	 . {characterised by the use of a particular data acquisition trajectory, e.g. helical or spiral} . Computed tomography [CT] (echo-tomography
	<u>A61B 8/14</u>)
6/032 6/035	 . {Transmission computed tomography [CT]} {Mechanical aspects of CT}
6/035 6/037	· · · · · · · · · · · · · · · · · · ·
0/03/	• • • {Emission tomography}

6/04	•	Positioning of patients; Tiltable beds or the like (operating tables <u>A61G 13/00</u> ; operating chairs <u>A61G 15/00</u>)	6/4258
6/0407	•	• {Supports, e.g. tables or beds, for the body or parts of the body}	6/4275
6/0414		• {with compression means}	
6/0421		• • {with immobilising means}	6/4283
6/0428		• • • {Patient cradles}	
6/0435		• • {with means for imaging suspended breasts}	6/4291
6/0442		• • {made of non-metallic materials}	
6/045		• • {with heating or cooling means}	6/44
6/0464		• • {mounted to ceiling}	
6/0471	•	• • {based on an endless-band}	6/4405
6/0478	•	• {Chairs}	<i>c</i> /4.4.1.1
6/0485	•	• {Inflatable rests for lifting of patients}	6/4411
6/0487	•	• {Motor-assisted positioning}	6/4417
6/0492	•	• {using markers or indicia for aiding patient	6/4417
		positioning}	6/4423
6/06		Diaphragms	6/4429
6/08	•	Auxiliary means for directing the radiation beam to	
C/10		a particular spot, e.g. using light beams	6/4435
6/10 6/102		Safety means specially adapted therefor • {Protection against mechanical damage, e.g. anti-	
0/102	•	collision devices}	6/4441
6/105		{Braking or locking devices}	6/4447
6/107		{Protection against radiation, e.g. shielding}	6/4452
6/12		Arrangements for detecting or locating foreign	
	-	bodies	6/4458
6/40		Arrangements for generating radiation specially	C/44C4
		adapted for radiation diagnosis	6/4464
6/4007	•	• {characterised by using a plurality of source	6/447
		units}	0/44/
6/4014		• • {arranged in multiple source-detector units}	6/4476
6/4021		• {involving movement of the focal spot}	
6/4028	•	• • {resulting in acquisition of views from	6/4482
6/4025		substantially different positions, e.g. EBCT}	6/4488
6/4035	•	• {the source being combined with a filter or grating}	
6/4042		• • {K-edge filters}	6/4494
6/405		• {Source units specially adapted to modify	6/46
0/405	•	characteristics of the beam during the data	
		acquisition process (A61B 6/4021, A61B 6/4035	6/461
		take precedence)}	6/462
6/4057	•	• {by using radiation sources located in the interior	(1)(2)
		of the body (<u>A61B 6/037</u> takes precedence)}	6/463
6/4064	•	• {specially adapted for producing a particular type	6/464
10<b 71		of beam}	6/465
6/4071	•	• {Pencil beams}	0, 100
6/4078	•	• • {Fan-beams}	6/466
6/4085	•	• • {Cone-beams}	6/467
6/4092 6/42	•	• • {for producing synchrotron radiation} Arrangements for detecting radiation specially	6/468
0/42	•	adapted for radiation diagnosis	6/469
6/4208		 {characterised by using a particular type of 	6/48
0, 1200	•	detector}	
6/4216		• {using storage phosphor screens}	6/481
6/4225		• {using image intensifiers}	6/482
6/4233		• • {using matrix detectors}	6/483
6/4241	•	• • {using energy resolving detectors, e.g. photon	6/484
		counting}	6/485
6/425	•	• • {using detectors specially adapted to be used in	6/486
		the interior of the body}	6/487
			0/-+0/

275	• {using a detector unit almost surrounding the
202	patient, e.g. more than 180°}
283	• • {characterised by a detector unit being housed in a cassette}
291	• • {the detector being combined with a grid or grating}
4	• {Constructional features of apparatus for radiation diagnosis}
405	• {the apparatus being movable or portable, e.g. handheld or mounted on a trolley}
411	• {the apparatus being modular (<u>A61B 6/4283</u> takes precedence)}
417	 {related to combined acquisition of different diagnostic modalities}
423	• {related to hygiene or sterilisation}
429	 . {related to the mounting of source units and
	detector units}
435	• • {the source unit and the detector unit being coupled by a rigid structure}
441	• • • • {the rigid structure being a C-arm or U-arm}
447	•••• {Tiltable gantries}
452	• • { the source unit and the detector unit being able to move relative to each other }
458	• • • {the source unit or the detector unit being attached to robotic arms}
464	• • • {the source unit or the detector unit being mounted to ceiling}
47	• • { the source unit or the detector unit being mounted to counterpoise or springs}
476	 {related to motor-assisted motion of the source unit}
482	• • • {involving power assist circuits}
488	• • {Means for cooling (<u>A61B 6/045</u> takes precedence)}
494	• • {Means for identifying the diagnostic device}
6	. Arrangements for interfacing with the operator or
	the patient
61	• {Displaying means of special interest}
62	 . {characterised by constructional features of the display}
63	 . (characterised by displaying multiple images or images and diagnostic data on one display)
64	• • • {involving a plurality of displays}
65	• • {adapted to display user selection data, e.g. graphical user interface, icons or menus}
66	• • • {adapted to display 3D data}
67	• {characterised by special input means}
68	• • {allowing annotation or message recording}
69	• • • { for selecting a region of interest [ROI] }
8	• {Diagnostic techniques (<u>A61B 6/022</u> , <u>A61B 6/025</u> <u>A61B 6/032</u> , <u>A61B 6/037</u> take precedence)}
81	 . {involving the use of contrast agents}
82	 (involving nultiple energy imaging)
83	 (involving indupte energy imaging) (involving scattered radiation)
84	 (involving seatched radiation) (involving phase contrast X-ray imaging)
85	 (involving phase contrast it dy imaging) (involving fluorescence X-ray imaging)
86	 (involving intoresective A ray integring) (involving generating temporal series of image data)
87	• • {involving fluoroscopy}

• • • { for detecting non x-ray radiation, e.g. gamma

units (<u>A61B 6/4014</u> takes precedence)}{using a detector unit almost surrounding the

radiation (<u>A61B 6/037</u> takes precedence)}. {characterised by using a plurality of detector

	<i></i>
6/488	• {involving pre-scan acquisition}
6/50	 specially adapted for specific body parts; specially adapted for specific clinical applications
6/501	 for diagnosis of the head, e.g. neuroimaging or
0/501	craniography }
6/502	• {for diagnosis of breast, i.e. mammography}
6/503	• • {for diagnosis of the heart}
6/504	• • {for diagnosis of blood vessels, e.g. by
	angiography}
6/505	• • {for diagnosis of bone}
6/506	• {for diagnosis of nerves}
6/507	• { for determination of haemodynamic parameters, e.g. perfusion CT}
6/508	• • {for non-human patients}
6/51	• • for dentistry
6/512	• • {Intraoral means}
6/52	• {Devices using data or image processing specially
6/5005	adapted for radiation diagnosis}
6/5205	 {involving processing of raw data to produce diagnostic data}
6/5211	• • {involving processing of medical diagnostic data}
6/5217	• • • {extracting a diagnostic or physiological
(15000	parameter from medical diagnostic data}
6/5223	• • • {generating planar views from image data, e.g. extracting a coronal view from a 3D image}
6/5229	• • • {combining image data of a patient, e.g.
	combining a functional image with an anatomical image}
6/5235	• • • {combining images from the same or
0/5255	different ionising radiation imaging
	techniques, e.g. PET and CT}
6/5241	•••• {combining overlapping images of the same imaging modality, e.g. by stitching}
6/5247	• • • { combining images from an ionising-
	radiation diagnostic technique and a non-
	ionising radiation diagnostic technique, e.g.
6/5050	X-ray and ultrasound}
6/5252	• • • {removing objects from field of view, e.g. removing patient table from a CT image}
6/5258	 . {involving detection or reduction of artifacts or
0/5250	noise}
6/5264	• • • {due to motion}
6/527	• • • { using data from a motion artifact sensor }
6/5276	• • • {involving measuring table sag}
6/5282	• • • {due to scatter}
6/5288	• • {involving retrospective matching to a
6/5204	physiological signal }
6/5294	• {involving using additional data, e.g. patient information, image labeling, acquisition
	parameters }
6/54	• {Control of apparatus or devices for radiation
	diagnosis}
6/541	• • {involving acquisition triggered by a
6/510	physiological signal }
6/542 6/544	 . {involving control of exposure} . {dependent on patient size}
6/545	 . {dependent on patient size} . {involving automatic set-up of acquisition
	parameters}
6/547	• • {involving tracking of position of the device or parts of the device}
6/548	• • {Remote control of the apparatus or devices}
6/56	• {Details of data transmission or power supply, e.g.
	use of slip rings}

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6/563	 {involving image data transmission via a network}
6/566	• • {involving communication between diagnostic
6/58	systems} . Testing, adjusting or calibrating thereof
6/581	 Remote testing}
6/582	 {Calibration}
6/582	 . {Calibration} . {using calibration phantoms}
6/584	 {determining position of components of
0/384	the apparatus or device using images of the phantom}
6/585	• • {Calibration of detector units}
6/586	• • {Detection of faults or malfunction of the device}
6/587	• • {Alignment of source unit to detector unit}
6/588	• • {Setting distance between source unit and detector unit}
6/589	• • {Setting distance between source unit and patient}
7/00	Instruments for auscultation
7/001	• {Detecting cranial noise, e.g. caused by aneurism}
7/003	• {Detecting lung or respiration noise}
7/005	• {Detecting noise caused by implants, e.g. cardiac valves}
7/006	• {Detecting skeletal, cartilage or muscle noise (<u>A61B 7/003</u> and <u>A61B 7/008</u> take precedence)}
7/008	• {Detecting noise of gastric tract, e.g. caused by voiding}
7/02	• Stethoscopes {(acoustic details thereof <u>G10K 11/00</u>)}
7/023	• • {for introduction into the body, e.g. into the oesophagus (oesophageal ECG probes <u>A61B 5/285</u>)}
7/026	• {comprising more than one sound collector}
7/04	 Comprising more than one sound concern? Electric stethoscopes (microphones, acoustic transducers therefor H04R)
7/045	 . {Detection of Korotkoff sounds (<u>A61B 5/0225</u> takes precedence; measuring blood pressure <u>A61B 5/021</u>)}
8/00	Diagnosis using ultrasonic, sonic or infrasonic
0.400	waves (imaging of objects using sonar G01S 15/00)
8/02	• Measuring pulse or heart rate
8/04	. Measuring blood pressure
8/06	• Measuring blood flow (measuring volume flow in general <u>G01F</u> , e.g. <u>G01F 1/66</u> , <u>G01F 1/72</u> ;
0/0CF	 measuring speed of fluids in general <u>G01P 5/00</u>) to determine blood output from the heart (in
8/065	general <u>A61B 5/029</u>)
8/08	 Detecting organic movements or changes, e.g. tumours, cysts, swellings (<u>A61B 8/02</u> - <u>A61B 8/06</u> take precedence)
8/0808	
8/0808 8/0816	
8/0825 8/0833	 . {for diagnosis of the breast, e.g. mammography} . {involving detecting or locating foreign bodies or
8/0833	organic structures}
8/0841	• • { for locating instruments }
8/085	• • { for locating body or organic structures, e.g. tumours, calculi, blood vessels, nodules }
8/0858	 {involving measuring tissue layers, e.g. skin, interfaces}
8/0866	• • {involving foetal diagnosis; pre-natal or peri-natal diagnosis of the baby}

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8/0875	•	• {for diagnosis of bone (<u>A61B 5/4504</u> takes precedence)}	8/4494
8/0883	•	• {for diagnosis of the heart}	
8/0891		• {for diagnosis of blood vessels}	
8/10		Eye inspection	
8/12		in body cavities or body tracts, e.g. by using	
		catheters (catheters per se A61M 25/00)	
8/13		Tomography (<u>A61B 8/10</u> , <u>A61B 8/12</u> take	8/46
		precedence; tomography for radiation diagnosis	
		A61B 6/02)	
8/14		• Echo-tomography	8/461
8/145		 . {characterised by scanning multiple planes} 	8/462
8/15		Transmission-tomography	
8/40			8/463
8/40	•	{Positioning of patients, e.g. means for holding or	
0/402		immobilising parts of the patient's body}	
8/403		• {using compression means}	
8/406		• {using means for diagnosing suspended breasts}	8/464
8/42	•	{Details of probe positioning or probe attachment to	8/465
		the patient}	
8/4209		• {by using holders, e.g. positioning frames}	8/466
8/4218		• • {characterised by articulated arms}	
8/4227	•	• • {characterised by straps, belts, cuffs or braces}	
8/4236	•	• {characterised by adhesive patches}	
8/4245		• {involving determining the position of the probe,	
		e.g. with respect to an external reference frame or	
		to the patient }	8/467
8/4254		• { using sensors mounted on the probe }	8/468
8/4263		• {using sensors not mounted on the probe, e.g.	8/469
		mounted on an external reference frame}	8/48
8/4272		• {involving the acoustic interface between the	0/40
0/12/2	•	transducer and the tissue}	0/401
8/4281		• {characterised by sound-transmitting media	8/481
0/4201	•	or devices for coupling the transducer to the	
		tissue}	
8/429		 • {characterised by determining or monitoring 	
0/42)	•	the contact between the transducer and the	0/102
		tissue}	8/483
8/44		{Constructional features of the ultrasonic, sonic or	9/495
0/44	•	infrasonic diagnostic device}	8/485
8/4405		• {Device being mounted on a trolley}	8/486
8/4403			8/488
		• {Device being modular}	8/52
8/4416	•	• {related to combined acquisition of different	
		diagnostic modalities, e.g. combination of	
0/4400		ultrasound and X-ray acquisitions}	8/5207
8/4422		• {related to hygiene or sterilisation}	
8/4427		• {Device being portable or laptop-like}	
8/4433		• {involving a docking unit}	8/5215
8/4438	•	• {Means for identifying the diagnostic device, e.g.	8/5223
		barcodes}	
8/4444	•	• {related to the probe}	
8/445	•	• • {Details of catheter construction}	
8/4455	•	• • {Features of the external shape of the probe,	8/523
		e.g. ergonomic aspects}	
8/4461		• • {Features of the scanning mechanism, e.g. for	
		moving the transducer within the housing of the	8/5238
		probe}	
8/4466		• • {involving deflection of the probe}	
8/4472		• • {Wireless probes}	
8/4477		 {using several separate ultrasound transducers or 	8/5246
	•	probes}	
8/4483		• {characterised by features of the ultrasound	
5, 1.05	•	transducer}	8/5253
8/4488		 . {the transducer being a phased array} 	
5, 1100	•	• • (the transactor being a phased array)	

8/4494	•	• • {characterised by the arrangement of the transducer elements (devices for short-range imaging using particular transducer cluments and cr COUS 15/2000)	
		elements arrangements under <u>G01S 15/8909</u> ; arrangements of transducers in generation of mechanical vibrations of infrasonic, sonic or ultrasonic frequency <u>B06B 1/0607</u>)}	
8/46	•	{Ultrasonic, sonic or infrasonic diagnostic devices with special arrangements for interfacing with the operator or the patient}	
8/461	•	• {Displaying means of special interest}	
8/462	•	 {characterised by constructional features of the display} 	he
8/463	•	 {characterised by displaying multiple images or images and diagnostic data on one display (composite display in devices for short-range 	•
		imaging with acoustic waves G01S 7/52074)	}
8/464	•	• • {involving a plurality of displays}	
8/465	•	• • {adapted to display user selection data, e.g.	
		icons or menus}	
8/466	•	 {adapted to display 3D data (3D imaging and stereoscopic displays in devices for short-ran imaging with acoustic waves <u>G01S 15/8993</u> and <u>G01S 7/52068</u>, respectively; 3D image rendering <u>G06T 15/00</u>; manipulating 3D 	
		models for computer graphics <u>G06T 19/00</u>)}	
8/467		• {characterised by special input means}	
8/468		• {allowing annotation or message recording}	
8/469		• {for selection of a region of interest}	
8/48	•	{Diagnostic techniques (<u>A61B 8/13</u> takes precedence)}	
8/481		• {involving the use of contrast agent, e.g.	
0/401	•	 (involving the use of confust agent, e.g. microbubbles introduced into the bloodstream (analysis of echo signal exploiting properties of a contrast enhancer in devices for short-range imaging with acoustic waves <u>G01S 7/52039</u>)} 	2
8/483	•	• {involving the acquisition of a 3D volume of data}	
8/485		• {involving measuring strain or elastic propertie	s }
8/486		• {involving arbitrary m-mode}	í
8/488		• {involving Doppler signals}	
8/52		{Devices using data or image processing specially	7
0/02	•	adapted for diagnosis using ultrasonic, sonic or infrasonic waves (image processing per se G06T)	
8/5207		• {involving processing of raw data to produce	J
0,3207	•	<pre>diagnostic data, e.g. for generating an image (reconstruction <u>G06T 11/00</u>)}</pre>	
8/5215	•	• {involving processing of medical diagnostic data	ta}
8/5223	•	• • {for extracting a diagnostic or physiological parameter from medical diagnostic data (for algorithms to analyse biomedical images G06T 7/0012)}	
8/523	•	• • {for generating planar views from image data in a user selectable plane not corresponding t the acquisition plane}	
8/5238	•	• • {for combining image data of patient, e.g. merging several images from different acquisition modes into one image (for image registration algorithms <u>G06T 7/30</u>)}	
8/5246	•	 • {combining images from the same or different imaging techniques, e.g. color Doppler and B-mode} 	
8/5253	•	•••• {combining overlapping images, e.g. spatial compounding}	

8/5261	•••• {combining images from different diagnostic modalities, e.g. ultrasound and X-ray}
8/5269	 {involving detection or reduction of artifacts (for image enhancement algorithms <u>G06T 5/00</u>)}
8/5276	• • • {due to motion}
8/5284	• {involving retrospective matching to a physiological signal}
8/5292	 {using additional data, e.g. patient information, image labeling, acquisition parameters}
8/54	• {Control of the diagnostic device}
8/543	 {involving acquisition triggered by a physiological signal}
8/546	 • {involving monitoring or regulation of device temperature}
8/56	• {Details of data transmission or power supply}
8/565	• {involving data transmission via a network}
8/58	 {Testing, adjusting or calibrating the diagnostic
0/50	device}
8/582	• • {Remote testing of the device}
8/585	• • {Automatic set-up of the device}
8/587	• • {Calibration phantoms (models for medical
	purposes <u>G09B 23/28</u>)}
9/00	Instruments for examination by percussion; Pleximeters
9/005	• {Electric apparatus for detecting reflex action,
	e.g. monitoring depth of anaesthesia (detection of
	movements $\underline{A61B 5/11}$ }
	biopsy, for vaccination diagnosis (vaccination
	prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements
	prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking
	prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements
2010/0003	prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements <u>NOTE</u> Attention is drawn to group <u>A61F 13/15</u> which
2010/0003 2010/0006	prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements <u>NOTE</u> Attention is drawn to group <u>A61F 13/15</u> which provides for swabs . {including means for analysis by an unskilled
	<pre>prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements <u>NOTE</u> Attention is drawn to group <u>A61F 13/15</u> which provides for swabs . {including means for analysis by an unskilled person}</pre>
2010/0006	<pre>prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements <u>NOTE</u> Attention is drawn to group <u>A61F 13/15</u> which provides for swabs . {including means for analysis by an unskilled person} {involving a colour change}</pre>
2010/0006 2010/0009	<pre>prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements <u>NOTE</u> Attention is drawn to group <u>A61F 13/15</u> which provides for swabs . {including means for analysis by an unskilled person} {involving a colour change} . {Testing for drug or alcohol abuse} . {Ovulation-period determination (for animals</pre>
2010/0006 2010/0009 10/0012	<pre>prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements <u>NOTE</u> Attention is drawn to group <u>A61F 13/15</u> which provides for swabs . {including means for analysis by an unskilled person} {involving a colour change} . {Testing for drug or alcohol abuse} . {Ovulation-period determination (for animals <u>A61D 17/002</u>)} {based on measurement of electric currents, e.g.</pre>
2010/0006 2010/0009 10/0012 2010/0016	<pre>prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements <u>NOTE</u> Attention is drawn to group <u>A61F 13/15</u> which provides for swabs . {including means for analysis by an unskilled person} {involving a colour change} . {Testing for drug or alcohol abuse} . {Ovulation-period determination (for animals <u>A61D 17/002</u>)} {based on measurement of electric currents, e.g. conductivity tests}</pre>
2010/0006 2010/0009 10/0012 2010/0016 2010/0019 2010/0022	 prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements <u>NOTE</u> Attention is drawn to group <u>A61F 13/15</u> which provides for swabs {including means for analysis by an unskilled person} {involving a colour change} {Testing for drug or alcohol abuse} {Ovulation-period determination (for animals <u>A61D 17/002</u>)} {based on measurement of electric currents, e.g. conductivity tests} {based on measurement of temperature} {based on measurement of viscosity or viscoelasticity}
2010/0006 2010/0009 10/0012 2010/0016 2010/0019 2010/0022 2010/0025	 prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements <u>NOTE</u> Attention is drawn to group <u>A61F 13/15</u> which provides for swabs {including means for analysis by an unskilled person} {including a colour change} {Testing for drug or alcohol abuse} {Ovulation-period determination (for animals <u>A61D 17/002</u>)} {based on measurement of electric currents, e.g. conductivity tests} {based on measurement of temperature} {based on measurement of viscosity or viscoelasticity} {based on analysis of crystalisation structure}
2010/0006 2010/0009 10/0012 2010/0016 2010/0019 2010/0022 2010/0025 2010/0029	 prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements <u>NOTE</u> Attention is drawn to group <u>A61F 13/15</u> which provides for swabs {including means for analysis by an unskilled person} {involving a colour change} {Testing for drug or alcohol abuse} {Ovulation-period determination (for animals <u>A61D 17/002</u>)} {based on measurement of electric currents, e.g. conductivity tests} {based on measurement of temperature} {based on analysis of crystalisation structure} {based on time measurement}
2010/0006 2010/0009 10/0012 2010/0016 2010/0019 2010/0022 2010/0025	 prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements <u>NOTE</u> Attention is drawn to group <u>A61F 13/15</u> which provides for swabs {including means for analysis by an unskilled person} {involving a colour change} {Testing for drug or alcohol abuse} {Ovulation-period determination (for animals <u>A61D 17/002</u>)} {based on measurement of electric currents, e.g. conductivity tests} {based on measurement of viscosity or viscoelasticity} {based on analysis of crystalisation structure} {based on measurement of pH-value} {Vaccination diagnosis other than by injuring the
2010/0006 2010/0009 10/0012 2010/0016 2010/0019 2010/0022 2010/0025 2010/0029 2010/0032	 prophylaxis, vaccination therapy <u>A61B 17/20</u>); Sex determination; Ovulation-period determination (menstruation tables <u>G06C 3/00</u>); Throat striking implements <u>NOTE</u> Attention is drawn to group <u>A61F 13/15</u> which provides for swabs {including means for analysis by an unskilled person} {involving a colour change} {Testing for drug or alcohol abuse} {Ovulation-period determination (for animals <u>A61D 17/002</u>)} {based on measurement of electric currents, e.g. conductivity tests} {based on measurement of temperature} {based on analysis of crystalisation structure} {based on time measurement} {based on time measurement {based on t
2010/0006 2010/0009 10/0012 2010/0016 2010/0019 2010/0022 2010/0025 2010/0029 2010/0032 10/0035	 prophylaxis, vaccination therapy A61B 17/20); Sex determination; Ovulation-period determination (menstruation tables G06C 3/00); Throat striking implements NOTE Attention is drawn to group A61F 13/15 which provides for swabs {including means for analysis by an unskilled person} {involving a colour change} {Testing for drug or alcohol abuse} {Ovulation-period determination (for animals A61D 17/002)} {based on measurement of electric currents, e.g. conductivity tests} {based on measurement of temperature} {based on measurement of viscosity or viscoelasticity} {based on analysis of crystalisation structure} {based on time measurement of pH-value} {based on taking facces samples; Faecal examination devices (anal receptacles A61F 5/451)} {betection of breast cancer (mammography by transillumination A61B 5/0091, by X-rays
2010/0006 2010/0009 10/0012 2010/0016 2010/0019 2010/0022 2010/0025 2010/0029 2010/0032 10/0035 10/0038	 prophylaxis, vaccination therapy A61B 17/20); Sex determination; Ovulation-period determination (menstruation tables G06C 3/00); Throat striking implements NOTE Attention is drawn to group A61F 13/15 which provides for swabs {including means for analysis by an unskilled person} {involving a colour change} {Testing for drug or alcohol abuse} {Ovulation-period determination (for animals A61D 17/002)} {based on measurement of electric currents, e.g. conductivity tests} {based on measurement of viscosity or viscoelasticity} {based on analysis of crystalisation structure} {based on measurement of pH-value} {based on measurement of pH-value} {based on measurement of pH-value} {based on time measurement of pH-value}

10/0031	• { for taking sarva or sputum samples (devices for
	receiving spittle <u>A61J 9/00</u>)}
2010/0054	• • {Ear liquid}
10/0058	• • {for taking sperm samples (artificial insemination
	A61B 17/43; for animals A61D 19/021; genital
	receptacles for the male member A61F 5/453;
	massage of the genitals <u>A61H 19/00</u>)}
2010/0061	• • {Alimentary tract secretions, e.g. biliary, gastric,
	intestinal, pancreatic secretions}
10/0064	• • { for taking sweat or sebum samples (measuring
	sweat production <u>A61B 5/4266</u>)}
2010/0067	• • {Tear or lachrymal fluid}
10/007	• • {for taking urine samples (measuring urological
10,001	functions <u>A61B 5/20;</u> genital receptacles
	A61F 5/451; urinals for bed-ridden persons
	A61G 9/006)}
2010/0074	• {Vaginal or cervical secretions}
2010/0077	 . {Cerebrospinal fluid}
2010/0077	{Interstitial fluid}
2010/0083	• {for taking gas samples}
2010/0087	• • {Breath samples}
2010/009	• {Various features of diagnostic instruments}
2010/0093	• • {slide rules}
10/0096	• {Casings for storing test samples (<u>A61B 10/0038</u>
	and A61B 10/0045 take precedence; preservation
	of living parts of the human or animal body
	A01N 1/02; containers for retaining a material to
	be analysed <u>B01L 3/50;</u> containers for enzymology
	or microbiology C12M 1/16; swab-sampler being
	part of enzymology or microbiology container
	<u>C12M 1/30</u>)}
10/02	. Instruments for taking cell samples or for
	biopsy {(<u>A61B 10/0038</u> and <u>A61B 10/0045</u> take
	precedence; needle locating or guiding means
	A61B 17/3403; samplers for enzymology or
	microbiology C12M 1/26; sampling or preparing
	biological specimens G01N 33/48)}
2010/0208	• • {Biopsy devices with actuators, e.g. with
	triggered spring mechanisms}
2010/0216	• • {Sampling brushes}
2010/0225	• • {for taking multiple samples}
10/0233	• • {Pointed or sharp biopsy instruments}
10/0241	• • {for prostate}
10/025	• • { for taking bone, bone marrow or cartilage
	samples}
2010/0258	{Marrow samples}
10/0266	 {means for severing sample}
10/0200	 {with sample notch, e.g. on the side of inner
10/02/3	
10/0292	stylet }
10/0283	• • • { with vacuum aspiration, e.g. caused
	by retractable plunger or by connected
	syringe (<u>A61B 10/025</u> , <u>A61B 10/0266</u> take
10/0201	precedence)}
10/0291	• {for uterus (<u>A61B 10/0045</u> takes precedence)}
10/04	Endoscopic instruments
2010/045	• • {Needles (pointed biopsy devices with vacuum
	aspiration <u>A61B 10/0283</u>)}
10/06	• Biopsy forceps {, e.g. with cup-shaped jaws}
13/00	Instruments for depressing the tongue (combined
13/00	with illuminating and viewing instruments
	A61B 1/24)

10/0051 . . {for taking saliva or sputum samples (devices for

16/00	Devices specially adapted for vivisection or autopsy (similar devices for medical purposes, <u>see</u> the relevant groups for such devices {; autopsy tables <u>A61G 13/0027</u> })
<u>Surgery</u>	
17/00	Surgical instruments, devices or methods, e.g. tourniquets (<u>A61B 18/00</u> takes precedence; contraceptive devices, pessaries, or applicators therefor <u>A61F 6/00</u> ; eye surgery <u>A61F 9/007</u> ; ear surgery <u>A61F 11/00</u>)
2017/00004	 {(bio)absorbable, (bio)resorbable, resorptive (for implantable prostheses <u>A61F 2210/0004</u>)}
17/00008	• {Vein tendon strippers (tube strippers <u>A61M 1/83</u>)}
2017/00013	• {Cables with a stripper head}
2017/00017	• {Electrical control of surgical instruments}
2017/00022	• {Sensing or detecting at the treatment site}
2017/00026	
2017/0003	• • • {of parts of the instruments}
2017/00035	•••• {pH}
2017/00039	• • {Electric or electromagnetic phenomena other
	than conductivity, e.g. capacity, inductivity, Hall effect}
2017/00044	• • • {Sensing electrocardiography, i.e. ECG}
2017/00048	· · · · · · (··F······)
2017/00053	••••• {Mapping}
2017/00057	• • • {Light}
2017/00061	• • • • {spectrum}
2017/00066	• • • • {intensity}
2017/0007	• • • • {Pyrometers}
2017/00075	• • • {Motion}
2017/00079	• • • {Radioactivity}
2017/00084	• • • {Temperature}
2017/00088	• • • {using thermistors}
2017/00092	• • • {using thermocouples}
2017/00097	••••• {one of the thermometric elements being an electrode or the heating element}
2017/00101	• • • { using an array of thermosensors }
2017/00106	• • • {ultrasonic}
2017/0011	
	• • {with audible or visual output (with imaging means <u>A61B 90/37</u> , <u>A61B 34/20</u>)}
2017/00119	
	• • • • {and automatic shutdown}
	• • {related to intensity or progress of surgical action}
2017/00132	• {Setting operation time of a device (A61B 2017/00123 takes precedence)}
2017/00137	
	 {Details of operation mode} {continuous, e.g. wave}
2017/00141	
2017/0015	
2017/00154	
2017/00159	
2017/00163	
2017/00168	
2017/00172	operation }
2017/00176	effect different from the first one}
2017/00181	• • • • {Means for setting or varying the pulse energy}

2017/00185	••••• {Means for setting or varying the pulse height}
2017/0019	• • • • {Means for setting or varying the pulse width}
2017/00194	
2017/00199	,
2017/00203	
2017/00207	recognition}
2017/00212	• • {using remote controls}
2017/00216	• • {with eye tracking or head position tracking control}
2017/00221	• • {with wireless transmission of data, e.g. by infrared radiation or radiowaves}
2017/00225	
2017/0023	<pre>instruments, e.g. microsurgical systems} . {disposable}</pre>
17/00234	 {usposate} {for minimally invasive surgery (<u>A61B 17/0218</u>,
17/00234	A61B 17/0469, A61B 17/12013, A61B 17/1285, A61B 17/29, A61B 17/320016 take precedence)
2017/00238	
	(A61B 2017/00805 takes precedence)}
2017/00243	••• {cardiac}
2017/00247	laser Myocardial revascularization}
2017/00252	• • • • {for by-pass connections, i.e. connections from heart chamber to blood vessel or from blood vessel to blood vessel}
2017/00256	• • • • {Creating an electrical block}
2017/00261	{Discectomy}
2017/00265	• • {Hand assisted surgery, i.e. minimally invasive surgery with at least part of an assisting hand inside the body}
2017/00269	• • {endoscopic mucosal resection EMR}
2017/00274	Prostate operation, e.g. prostatectomy, turp,
	bhp treatment }
2017/00278	• • • {Transorgan operations, e.g. transgastric}
2017/00283	• • {with a device releasably connected to an inner wall of the abdomen during surgery, e.g. an illumination source}
2017/00287	• • {Bags for minimally invasive surgery}
2017/00292	
	like, means}
2017/00296	• • • {mounted on an endoscope}
2017/003	• • • {Steerable}
2017/00305	• • • {Constructional details of the flexible means}
2017/00309	•••• {Cut-outs or slits}
2017/00314	• • • • {Separate linked members}
2017/00318	••••••••••••••••••••••••••••••••••••••
2017/00323	••••• {Cables or rods}
2017/00323	•••••• {with actuating members moving in
	opposite directions}
2017/00331	• • • • {with preformed bends}
2017/00336	• • {with a protective sleeve, e.g. retractable or slidable}
2017/0034	
	channel of an endoscope}
2017/00345	• • {Micromachines, nanomachines, microsystems}

2017/00349	• • {Needle-like instruments having hook or barb- like gripping means, e.g. for grasping suture or tissue (<u>A61B 17/06066</u> takes precedence)}
2017/00353	 {one mechanical instrument performing multiple functions, e.g. cutting and grasping (channel for multiple instruments <u>A61B 2017/3445;</u> instrument channel <u>A61B 2017/22072;</u> replaceable heads <u>A61B 2017/2931;</u> suction <u>A61M 1/00</u>)}
2017/00358	• • {Snares for grasping}
2017/00362	• • {Packages or dispensers for MIS instruments
	(A61B 2017/0479 takes precedence)
2017/00367	• {Details of actuation of instruments, e.g. relations
2017/00307	 Details of actuation of institutients, e.g. relations between pushing buttons, or the like, and activation of the tool, working tip, or the like}
2017/00371	
2017/00371	or two working tips becoming operational}
2017/00376	
2017/00570	simultaneously pushing two buttons}
2017/0029	
2017/0038	• • • {Simultaneous actuation of two tools by
	pushing one button or the like}
2017/00384	
	simultaneously }
2017/00389	
	functions, e.g. rotation of shaft and end effector}
2017/00393	• • • {with means for switching between functions}
2017/00398	• {using powered actuators, e.g. stepper motors,
	solenoids }
2017/00402	• • {Piezo electric actuators}
2017/00407	• • {Ratchet means}
2017/00411	 • {actuated by application of energy from an
2017/00411	energy source outside the body}
2017/00415	 • {having power generation near the working tip of
2017/00415	the tool}
2017/0042	
2017/0042	• {with special provisions for gripping}
2017/00424	• • {ergonomic, e.g. fitting in fist}
2017/00429	• • {with a roughened portion}
2017/00433	• • • {knurled}
2017/00438	• • {connectable to a finger}
2017/00442	• {connectable to wrist or forearm}
2017/00446	• • {for use only by lefthanded or only by
	righthanded persons}
2017/00451	• • {by lefthanded persons}
2017/00455	• {Orientation indicators, e.g. recess on the handle}
2017/0046	• {with a releasable handle; with handle and operating
2017/0010	part separable (for prosthetic joint-implanting tools
	<u>A61F 2/4603</u>)}
2017/00464	• { for use with different instruments (with hole for
2017/00404	different instruments <u>A61B 2017/22072</u>)}
2017/00469	
2017/00407	optical fibre}
2017/00473	
2017/00475	• {Distal part, e.g. tip or head (<u>A61B 2017/00464</u> takes precedence)}
2017/00477	
2017/00477	
2017/00482	• • {with a code}
2017/00486	• • {Adaptors for coupling parts with incompatible
17/00/01	geometries}
17/00491	• {Surgical glue applicators (surgical adhesives
	<u>A61L 24/00;</u> two-component delivery syringes
0015/00/05	<u>A61M 5/19</u>)}
2017/00495	• • {for two-component glue}
2017/005	• • {hardenable using external energy source, e.g.
	laser, ultrasound}
2017/00504	• • {Tissue welding}

2017/00508	
2017/00513	• • {Tissue soldering}
2017/00517	• • • {using laser}
2017/00522	
2017/00526	• {Methods of manufacturing}
2017/0053	• • {Loading magazines or sutures into applying tools}
2017/00535	• {pneumatically or hydraulically operated
	(A61B 2017/22051, A61B 2090/401 take
	precedence)}
2017/00539	• • {hydraulically}
2017/00544	• • {pneumatically}
2017/00548	• • • {Gas cartridges therefor}
2017/00553	• • {using a turbine}
2017/00557	• {inflatable (<u>A61B 2017/22051</u> takes precedence)}
2017/00561	• • {creating a vacuum}
2017/00566	The second secon
17/0057	• {Implements for plugging an opening in the wall of
	a hollow or tubular organ, e.g. for sealing a vessel
	puncture or closing a cardiac septal defect (sutures
	A61B 17/04; closing rectum or urethra near body
2017/00575	 surface <u>A61F 2/0009</u>)} • {for closure at remote site, e.g. closing atrial
2017/00575	septum defects}
2017/00579	•
2017/00579	
2017/00588	 . {Clips} . {Rigid or stiff implements, e.g. made of several
2017/00500	rigid parts linked by hinges}
2017/00592	• • {Elastic or resilient implements}
2017/00597	• • {Implements comprising a membrane}
2017/00601	• • {Implements entirely comprised between the
	two sides of the opening}
2017/00606	
	with occluders on both sides of the opening}
2017/0061	{Implements located only on one side of the
	opening}
2017/00615	
	the opening and holding means therefor on the
	other}
2017/00619	• • {Locking means for locking the implement in
2017/00623	expanded state } {Introducing or retrieving devices therefor }
2017/00623	
	 . {Occluding a cavity, i.e. closing a blind
2017/00032	opening}
2017/00637	 • {for sealing trocar wounds through abdominal
2017/00037	wall}
2017/00641	• { for closing fistulae, e.g. anorectal fistulae }
2017/00646	• • {Type of implements}
2017/0065	• • { the implement being an adhesive }
2017/00654	• • {entirely comprised between the two sides of
	the opening}
2017/00659	• • {located only on one side of the opening}
2017/00663	
2017/00668	
2017/00672	, , ,
2017/00676	
2017/00681	
2017/00685	
2017/0069	• • {with universal joint, cardan joint}
2017/00694	0
	synchronisation with the body}

2017/00699	• • • {correcting for movement caused by
2015/00502	respiration, e.g. by triggering}
2017/00703	• • {correcting for movement of heart, e.g. ECG- triggered}
2017/00707	
2017/00707	or parts of patient}
2017/00712	• • • {simulating mathematical properties, e.g. for
	testing of positioning in the isocentre or focus}
2017/00716	• • { simulating physical properties }
2017/00721	• • • { using artificial kidney stones for testing
	purposes}
2017/00725	• • {Calibration or performance testing}
2017/0073	• • {with means for minimising or preventing pain
	during treatment}
2017/00734	
2017/00738	• • {part of the tool being offset with respect to a
2017/00742	main axis, e.g. for better view for the surgeon}
2017/00743	• {Type of operation; Specification of treatment sites (A61B 2017/00238 takes precedence)}
2017/00747	• · · · · · · · · · · · · · · · · · · ·
2017/00747	
2017/00756	 . {Port wine stains}
	 . {Removing layer of skin tissue, e.g. wrinkles,
2017/00/01	scars or cancerous tissue }
2017/00765	• • {Decreasing the barrier function of skin tissue
	by radiated energy, e.g. using ultrasound, using
	laser for skin perforation}
2017/00769	(
2017/00774	••• {Wart}
2017/00778	• • {Operations on blood vessels (<u>A61B 2017/22097</u> ,
	<u>A61B 2017/320741</u> take precedence)}
2017/00783	••• {Valvuloplasty}
2017/00787	• {Surgery of the ear}
2017/00792	• • {Plastic surgery}
2017/00796 2017/008	. {Breast surgery}
2017/008	 . {Removal of tumors} . {Treatment of female stress urinary incontinence}
2017/00803	 . {Treatment of remaie suess unnary incontinence} . {Lung operations}
2017/00809	• {Surgery of the tongue, e.g. glossoplasty}
2017/00818	 (Surgery of the onigue, e.g. glossophisty) {Treatment of the gastro-intestinal system}
2017/00823	
2017/00827	
2017/00831	• {Material properties}
2017/00836	
	precedence; preventing galvanic or electrolytic
	corrosion in prostheses <u>A61F 2210/0009</u>)}
2017/0084	• • {low friction (<u>A61B 2017/00853</u> takes
0017/00017	precedence)}
2017/00845	• • • {of moving parts with respect to each other}
2017/00849	• • • {with respect to tissue, e.g. hollow organs}
2017/00853	• {low friction, hydrophobic and corrosion- resistant fluorocarbon resin coating (ptf, ptfe,
	polytetrafluoroethylene)}
2017/00858	 • {high friction, non-slip (on handles
	<u>A61B 2017/00429</u>)}
2017/00862	
	<u>A61B 2017/0618</u>)}
2017/00867	
	<u>A61F 2210/0014</u>)}
2017/00871	• • • {polymeric}
2017/00876	
2017/0088	• {ceramic}
2017/00884	• • {enhancing wound closure}

	• • {antimicrobial, disinfectant}
	• • {pharmaceutically effective}
	• • {expandable upon contact with fluid}
	• • {transparent or translucent}
	• • • {for light}
2017/00911	• • • { for fields applied by a magnetic resonance
	imaging system}
	• • • {for radioactive radiation}
	•••• {for X-rays}
	• • • {for ultrasonic waves}
	• • {isolating electrical current}
	• {bone or bone-like}
	• • {hydrophobic}
	• • {hydrophilic}
	• {malleable}
	• • {adhesive}
	• {thermoplastic}
	 {self cleaning, e.g. having lotus effect} {composite}
	{composite}{used for transplantation}
	• {pedal-operated}
	 the depression depth determining the power
2017/00/17	rate}
2017/00982	• {General structural features}
	• {Malecots, e.g. slotted tubes, of which the distal
	end is pulled to deflect side struts}
2017/00991	• • {Telescopic means}
2017/00995	• • {having a thin film}
17/02	• for holding wounds open; Tractors ({specula
	<u>A61B 1/32</u> }; drainage appliances for wounds
	<u>A61M 27/00</u>)
17/0206	• • {with antagonistic arms as supports for retractor
	elements }
2017/0212	
17/0218	tissue retainers, e.g. for retracting viscera}(for minimally invasive surgery (A61B 17/0281,
17/0218	<u>A61B 17/0469</u> , <u>A61B 17/12013</u> , <u>A61B 17/1285</u> ,
	<u>A61B 17/29</u> , <u>A61B 17/320016</u> take precedence)}
2017/0225	• • {flexible, e.g. fabrics, meshes, or membranes}
17/0231	 (nemets, e.g. factors, meshes, or memoranes) (for eye surgery)
2017/0237	 (for heart surgery (endoscopic heart surgery
	<u>A61B 2017/00243;</u> endoscopic access devices,
	i.e. trocars, <u>A61B 17/34</u>)}
2017/0243	• • { for immobilizing local areas of the heart, e.g.
	while it beats (trocars attached to inner organs
	or inner body tissue <u>A61B 2017/3488</u>)}
17/025	• • {Joint distractors}
2017/0256	• • • { for the spine }
2017/0262	• • • { with a provision for protecting nerves }
2017/0268	$\cdot \cdot \cdot \{ \text{for the knee} \}$
2017/0275	• • • {for the hip}
17/0281	• {Abdominal wall lifters}
2017/0287	• • {with elastic retracting members connectable to a frame, e.g. hooked elastic wires}
17/0293	 • {with ring member to support retractor elements}
17/02/3	 for suturing wounds; Holders or packages for
17707	needles or suture materials (suture materials
	<u>A61L 17/00</u>)

17/0401	• • {Suture anchors, buttons or pledgets, i.e. means	
	for attaching sutures to bone, cartilage or soft	
	tissue; Instruments for applying or removing suture anchors (A61B 17/0642 takes precedence	
	fixation devices for tendons or ligaments	2,
	<u>A61F 2/0811</u>)}	
2017/0403	• • {Dowels (other bone dowels A61B 17/68;	
	dowels for connecting prosthetic parts	
	<u>A61F 2002/30433</u>)}	
2017/0404	• • • {Buttons}	
2017/0406	• • • {Pledgets}	
2017/0408	• • • {Rivets (other bone rivets <u>A61B 17/68;</u>	
	rivets for connecting prosthetic parts A61F 2002/30433, A61F 2220/0041)}	
2017/0409	• • • {Instruments for applying suture anchors	
	(for applying suture clamps, clips or locks	
	<u>A61B 2017/0488</u>)}	
2017/0411	• • • {Instruments for removing suture anchors	
	(for removing suture clamps, clips or locks <u>A61B 2017/049</u>)}	
2017/0412	• • • {having anchoring barbs or pins extending	
	outwardly from suture anchor body}	
2017/0414	{having a suture-receiving opening, e.g. later	al
	opening (lateral eyelet for attaching suture to	
	needle <u>A61B 2017/06019</u>)}	
2017/0416	{Packages or dispensers for suture anchors or	•
	for anchor applicators }	
2017/0417	• • • {T-fasteners}	
2017/0419	• • • {H-fasteners}	
2017/042	• • • {plastically deformed during insertion}	
2017/0422	{by insertion of a separate member into the body of the anchor}	;
2017/0424	•••• {the separate member staying in the anchor after placement}	
2017/0425	• • • • {the anchor or the separate member	
	comprising threads, e.g. a set screw in th	e
	anchor}	
2017/0427	• • • {having anchoring barbs or pins extending	
	outwardly from the anchor body}	
2017/0429	• • • { the barbs being expanded by a mechanical	l
	mechanism which also locks them in the	
	expanded state}	
2017/043	•••• {by insertion of a separate spreading	
	member into the anchor}	
2017/0432	{the separate member staying in the	
2017/0433	anchor after placement} {the anchor or the separate member	
2017/0455	comprising threads, e.g. a set screw	
	or a worm gear for moving spreading	
	members}	
2017/0435	• • • • {the barbs being separate elements	
2017/0435	mechanically linked to the anchor, e.g. by	
	pivots}	
2017/0437	• • • {the barbs being resilient or spring-like}	
2017/0438	• • {slotted, i.e. having a longitudinal slot for	
	enhancing their elasticity }	
2017/044	• • • {with a threaded shaft, e.g. screws}	
2017/0441	•••• {the shaft being a rigid coil or spiral}	
2017/0443	•••• {the shaft being resilient and having a coile	:d
2017/01/2	or helical shape in the released state}	
2017/0445	• • • {cannulated, e.g. with a longitudinal through-	
0017/0114	hole for passage of an instrument}	
2017/0446	• • • {Means for attaching and blocking the suture	ın
	the suture anchor}	

eans ft	2017/0448	•	•	•		Additional elements on or within the nchor}
g	2017/045					{snug fit within the anchor}
ence;	2017/0451					{Cams or wedges holding the suture by
						friction}
	2017/0453	•	•	•		{threaded elements, e.g. set screws}
;	2017/0454	•	•	•		the anchor being crimped or clamped on the uture}
	2017/0456	_		_		Surface features on the anchor, e.g. ribs
	2017/0100	•	•	•	iı	acreasing friction between the suture and the nchor}
	2017/0458	_		_		Longitudinal through hole, e.g. suture
	2017/0100	•	•	•		locked by a distal suture knot}
	2017/0459	•	•	•		Multiple holes in the anchor through which ne suture extends and locking the suture
s						when tension is applied}
	2017/0461					with features cooperating with special
5		-	-	•		eatures on the suture, e.g. protrusions on the
KS .						uture}
	2017/0462					{One way system, i.e. also tensioning the
g						suture}
	2017/0464				{foi	soft tissue}
ateral	17/0466				· ·	re bridges}
e to	17/0467					uments for cutting sutures (surgical cutting
						ments <u>A61B 17/32</u>)}
rs or	17/0469	•	•	{S	utu	ring instruments for use in minimally
				in	/asi	ve surgery, e.g. endoscopic surgery}
	2017/047	•	•		· ·	ving at least one proximally pointing needle
						ated at the distal end of the instrument, e.g.
o the						suturing trocar puncture wounds starting n inside the body (J-shaped suture needles
, uic						<u>B 2017/0608</u>)
	2017/0472					ultiple-needled, e.g. double-needled,
	2017/01/2	•	•			ruments}
	2017/0474					not pushers}
in the	2017/0475					ing sutures having a slip knot}
	2017/0477					th pre-tied sutures}
g	2017/0479				· ·	ckages or dispensers for MIS suturing
					-	ruments}
nical	2017/048	•	•			reducing heart wall tension, e.g. sutures
ne						n a pad on each extremity}
	17/0482	•	•			lle or suture guides (guides for drills, pins
						e <u>A61B 17/17;</u> for puncturing needles $17/2402$)
ne	17/0483					<u>17/3403</u>)} I-held instruments for holding sutures
	1//0400	•	•			<u>3 17/0469</u> takes precedence; other
er						s for needles or sutures A61B 17/06061;
W						al forceps A61B 17/28; surgical pincettes
ing						<u>17/30</u>)}
	17/0485			{I	evi	ces or means, e.g. loops, for capturing the
						thread and threading it through an opening
by						ituring instrument or needle eyelet}
	17/0487	•	•			re clamps, clips or locks, e.g. for replacing
e}						knots; Instruments for applying or
L						ing suture clamps, clips or locks (suture
						rs <u>A61B 17/0401;</u> wound clamps or A61B 17/08; ligaturing clamps or clips
						<u>17/122</u>)}
coiled	2017/0488			•		struments for applying suture clamps,
		-	-			s or locks (for applying suture anchors
ugh-					A61	<u>B 2017/0409;</u> for applying wound clamps
						$(\underline{B} \ \underline{17/10}; \text{ for applying ligaturing clamps or})$
ture in					unp	s <u>A61B 17/128</u>)}

2017/049	 . {Instruments for removing suture clamps, clips or locks (for removing suture anchors <u>A61B 2017/0411</u>; for removing wound clamps <u>A61B 17/10</u>; for removing ligaturing clamps or clips <u>A61B 17/128</u>)} . {Sewing machines for surgery}
17/0493	• {Protective devices for suturing, i.e. for protecting the patient's organs or the operator}
2017/0495	• • {Reinforcements for suture lines}
2017/0496	• • {for tensioning sutures}
2017/0498	• • {for advancing a suture filament along a helical path through tissue}
17/06	 Needles {; Sutures; Needle-suture combinations}; Holders or packages for needles or suture materials (puncturing needles <u>A61B 17/34</u>; hypodermic needles <u>A61M 5/32</u> {; sewing needles <u>D05B 85/00</u>})
17/06004	 . {Means for attaching suture to needle (tipping <u>A61B 17/06195;</u> connecting wire to other metallic objects <u>B21F 15/00</u>)}
2017/06009	
	clamping the suture to the needle, e.g. actuating rod slideable within the needle}
2017/06014	• • • {spring-loaded}
2017/06019	
	eyelet machined in the needle (lateral
	opening for attaching suture to suture anchor <u>A61B 2017/0414</u>)}
2017/06023	•••• {Multiple eyelets}
2017/06028	•••• {by means of a cylindrical longitudinal blind
	bore machined at the suture-receiving end of the needle, e.g. opposite to needle tip}
2017/06033	
	<u>A61B 17/00491;</u> for connecting prosthetic parts <u>A61F 2002/30448</u>)}
2017/06038	
2017/00050	(for connecting prosthetic parts
	<u>A61F 2002/30451, A61F 2220/0058</u>)}
2017/06042	• • • {located close to needle tip}
2017/06042	• • • {located close to needle up}
	 {Needle-suture combinations in which a suture
2017/00032	 is extending inside a hollow tubular needle, e.g. over the entire length of the needle (hollow suture needles <u>A61B 2017/061</u>)}
2017/06057	
	needle attached to each end}
17/06061	• • • {Holders for needles or sutures, e.g. racks,
	stands (hand-held holding instruments
	A61B 17/0483; holders for articles
	A61B 50/20; racks for syringes or for
	hypodermic or infusion needles <u>A61M 5/008</u>)}
17/06066	• • {Needles, e.g. needle tip configurations (making needles <u>B21G 1/00</u>)}
2017/06071	• • • { with an abrupt angle formed between two
2017/0/07	adjacent sections }
2017/06076	<u>A61B 2017/06171</u>)}
2017/0608	•••• {J-shaped}
2017/06085	• • • • {having a blunt tip (blunt dissectors
	<u>A61B 2017/320044</u>)}

2017/0609	·	•	•	• {having sharp tips at both ends, e.g. shuttle needle alternately retained and released by first and second facing jaws of a suturing instrument (MIS suturing instruments <u>A61B 17/0469</u> ; jaws of MIS forceps <u>A61B 2017/2926</u>)}
2017/06095				• {pliable}
2017/061				{hollow or tubular (suture extending inside
				a hollow needle <u>A61B 2017/06052;</u> hollow sutures <u>A61B 2017/06185</u>)}
2017/06104				• {interconnected at their distal ends, e.g. two
2017/00101	·	•	•	hollow needles forming a loop for passing a suture}
17/06109	•	•	•	• {Big needles, either gripped by hand or connectable to a handle}
17/06114		•		{Packages or dispensers for needles or sutures
				(packages for sharps <u>A61B 50/3001</u> ; for dental floss <u>A61C 15/043</u> ; packages for needles in general <u>B65D 85/24</u>)}
17/06119				• {of cylindrical shape}
17/06123	•	•	•	• • {Flat cylinders, e.g. including an inner reel}
17/06128				• {Elongate cylinders, i.e. tubes}
17/06133	•	•	•	 {of parallelepipedal shape, e.g. made of
1//00155	•	•	•	rectangular or slightly oval panels}
17/06138				• • {including a retainer comprising three or
				more foldable panels}
2017/06142	•	•	•	• {having needle- or suture- retaining members, e.g. holding tabs or needle parks}
2017/06147				• • {Foam blocks, e.g. slitted}
2017/06152		•	•	• {containing a suture wound in a figure-8
				configuration}
2017/06157				• {containing a suture wound in a sinusoidal or
				zigzag configuration }
17/06161	•	•		{Devices for removing or collecting used
17/06161	•	•	•	{Devices for removing or collecting used needles or sutures (<u>A61B 17/0467</u> takes
		•	•	{Devices for removing or collecting used needles or sutures (A61B 17/0467 takes precedence; for sharps A61B 50/362)}
17/06161 17/06166	•	•	•	{Devices for removing or collecting used needles or sutures (A61B 17/0467 takes precedence; for sharps A61B 50/362)} {Sutures (suture materials A61L 17/00;
	•	•	•	{Devices for removing or collecting used needles or sutures (A61B 17/0467 takes precedence; for sharps A61B 50/362)} {Sutures (suture materials A61L 17/00; manufacture of artificial threads D01D;
17/06166		•	•	{Devices for removing or collecting used needles or sutures (<u>A61B 17/0467</u> takes precedence; for sharps <u>A61B 50/362</u>)} {Sutures (suture materials <u>A61L 17/00</u> ; manufacture of artificial threads <u>D01D</u> ; treatment of threads <u>D06M</u>)}
		•	•	{Devices for removing or collecting used needles or sutures (<u>A61B 17/0467</u> takes precedence; for sharps <u>A61B 50/362</u>)} {Sutures (suture materials <u>A61L 17/00</u> ; manufacture of artificial threads <u>D01D</u> ; treatment of threads <u>D06M</u>)} • {helically or spirally coiled (for needles
17/06166 2017/06171			•	{Devices for removing or collecting used needles or sutures (<u>A61B 17/0467</u> takes precedence; for sharps <u>A61B 50/362</u>)} {Sutures (suture materials <u>A61L 17/00</u> ; manufacture of artificial threads <u>D01D</u> ; treatment of threads <u>D06M</u>)} • {helically or spirally coiled (for needles <u>A61B 2017/06076</u>)}
17/06166 2017/06171 2017/06176		•		<pre>{Devices for removing or collecting used needles or sutures (<u>A61B 17/0467</u> takes precedence; for sharps <u>A61B 50/362</u>)} {Sutures (suture materials <u>A61L 17/00</u>; manufacture of artificial threads <u>D01D</u>; treatment of threads <u>D06M</u>)} • {helically or spirally coiled (for needles <u>A61B 2017/06076</u>)} • {with protrusions, e.g. barbs}</pre>
17/06166 2017/06171		•		<pre>{Devices for removing or collecting used needles or sutures (A61B 17/0467 takes precedence; for sharps A61B 50/362)} {Sutures (suture materials A61L 17/00; manufacture of artificial threads D01D; treatment of threads D06M)} • {helically or spirally coiled (for needles A61B 2017/06076)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses A61F 2210/0057)}</pre>
17/06166 2017/06171 2017/06176	•	• • •	· · ·	<pre>{Devices for removing or collecting used needles or sutures (A61B 17/0467 takes precedence; for sharps A61B 50/362)} {Sutures (suture materials A61L 17/00; manufacture of artificial threads D01D; treatment of threads D06M)} • {helically or spirally coiled (for needles A61B 2017/06076)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses A61F 2210/0057)} • {hollow or tubular (hollow suture needles</pre>
17/06166 2017/06171 2017/06176 2017/0618 2017/06185	•	• • •		<pre>{Devices for removing or collecting used needles or sutures (<u>A61B 17/0467</u> takes precedence; for sharps <u>A61B 50/362</u>)} {Sutures (suture materials <u>A61L 17/00</u>; manufacture of artificial threads <u>D01D</u>; treatment of threads <u>D06M</u>)} • {helically or spirally coiled (for needles <u>A61B 2017/06076</u>)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses <u>A61F 2210/0057</u>)} • {hollow or tubular (hollow suture needles <u>A61B 2017/061</u>)}</pre>
17/06166 2017/06171 2017/06176 2017/0618	•		· · · · ·	<pre>{Devices for removing or collecting used needles or sutures (<u>A61B 17/0467</u> takes precedence; for sharps <u>A61B 50/362</u>)} {Sutures (suture materials <u>A61L 17/00</u>; manufacture of artificial threads <u>D01D</u>; treatment of threads <u>D06M</u>)} • {helically or spirally coiled (for needles <u>A61B 2017/06076</u>)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses <u>A61F 2210/0057</u>)} • {hollow or tubular (hollow suture needles <u>A61B 2017/061</u>)} • {thermoplastic, e.g. for bonding, welding, fusing or cutting the suture by melting it (suture cutters <u>A61B 17/0467</u>; ultrasonic cutters <u>A61B 17/320068</u>; electrically heated</pre>
17/06166 2017/06171 2017/06176 2017/0618 2017/06185	•	· · ·	· · · · · ·	<pre>{Devices for removing or collecting used needles or sutures (<u>A61B 17/0467</u> takes precedence; for sharps <u>A61B 50/362</u>)} {Sutures (suture materials <u>A61L 17/00</u>; manufacture of artificial threads <u>D01D</u>; treatment of threads <u>D06M</u>)} • {helically or spirally coiled (for needles <u>A61B 2017/06076</u>)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses <u>A61F 2210/0057</u>)} • {hollow or tubular (hollow suture needles <u>A61B 2017/061</u>)} • {thermoplastic, e.g. for bonding, welding, fusing or cutting the suture by melting it (suture cutters <u>A61B 17/0467</u>; ultrasonic cutters <u>A61B 17/320068</u>; electrically heated instruments <u>A61B 18/08</u>)}</pre>
17/06166 2017/06171 2017/06176 2017/0618 2017/06185 2017/0619	•	· · ·	· · ·	<pre>{Devices for removing or collecting used needles or sutures (<u>A61B 17/0467</u> takes precedence; for sharps <u>A61B 50/362</u>)} {Sutures (suture materials <u>A61L 17/00</u>; manufacture of artificial threads <u>D01D</u>; treatment of threads <u>D06M</u>)} • {helically or spirally coiled (for needles <u>A61B 2017/06076</u>)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses <u>A61F 2210/0057</u>)} • {hollow or tubular (hollow suture needles <u>A61B 2017/061</u>)} • {thermoplastic, e.g. for bonding, welding, fusing or cutting the suture by melting it (suture cutters <u>A61B 17/0467</u>; ultrasonic cutters <u>A61B 17/320068</u>; electrically heated</pre>
17/06166 2017/06171 2017/06176 2017/0618 2017/06185 2017/0619	•	· · ·	· · · · · ·	<pre>{Devices for removing or collecting used needles or sutures (A61B 17/0467 takes precedence; for sharps A61B 50/362)} {Sutures (suture materials A61L 17/00; manufacture of artificial threads D01D; treatment of threads D06M)} • {helically or spirally coiled (for needles A61B 2017/06076)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses A61F 2210/0057)} • {hollow or tubular (hollow suture needles A61B 2017/061)} • {thermoplastic, e.g. for bonding, welding, fusing or cutting the suture by melting it (suture cutters A61B 17/0467; ultrasonic cutters A61B 17/320068; electrically heated instruments A61B 18/08)} {Apparatus or means for preparing the cut end of the suture thread to be attached to the needle, e.g. tipping to prevent brooming</pre>
17/06166 2017/06171 2017/06176 2017/0618 2017/06185 2017/0619	•	• • • •	· · ·	<pre>{Devices for removing or collecting used needles or sutures (A61B 17/0467 takes precedence; for sharps A61B 50/362)} {Sutures (suture materials A61L 17/00; manufacture of artificial threads D01D; treatment of threads D06M)} • {helically or spirally coiled (for needles A61B 2017/06076)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses A61F 2210/0057)} • {hollow or tubular (hollow suture needles A61B 2017/061)} • {thermoplastic, e.g. for bonding, welding, fusing or cutting the suture by melting it (suture cutters A61B 17/0467; ultrasonic cutters A61B 17/320068; electrically heated instruments A61B 18/08)} {Apparatus or means for preparing the cut end of the suture thread to be attached to the needle, e.g. tipping to prevent brooming (A61B 17/06004 takes precedence)}</pre>
17/06166 2017/06171 2017/06176 2017/0618 2017/06185 2017/0619	•	· · ·	· · ·	<pre>{Devices for removing or collecting used needles or sutures (A61B 17/0467 takes precedence; for sharps A61B 50/362)} {Sutures (suture materials A61L 17/00; manufacture of artificial threads D01D; treatment of threads D06M)} • {helically or spirally coiled (for needles A61B 2017/06076)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses A61F 2210/0057)} • {hollow or tubular (hollow suture needles A61B 2017/061)} • {thermoplastic, e.g. for bonding, welding, fusing or cutting the suture by melting it (suture cutters A61B 17/0467; ultrasonic cutters A61B 17/320068; electrically heated instruments A61B 18/08)} {Apparatus or means for preparing the cut end of the suture thread to be attached to the needle, e.g. tipping to prevent brooming (A61B 17/06004 takes precedence)} Needle manipulators</pre>
17/06166 2017/06171 2017/06176 2017/0618 2017/06185 2017/06195	•	· · ·	· · · · · ·	<pre>{Devices for removing or collecting used needles or sutures (A61B 17/0467 takes precedence; for sharps A61B 50/362)} {Sutures (suture materials A61L 17/00; manufacture of artificial threads D01D; treatment of threads D06M)} • {helically or spirally coiled (for needles A61B 2017/06076)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses A61F 2210/0057)} • {hollow or tubular (hollow suture needles A61B 2017/061)} • {thermoplastic, e.g. for bonding, welding, fusing or cutting the suture by melting it (suture cutters A61B 17/0467; ultrasonic cutters A61B 17/320068; electrically heated instruments A61B 18/08)} {Apparatus or means for preparing the cut end of the suture thread to be attached to the needle, e.g. tipping to prevent brooming (A61B 17/06004 takes precedence)} Needle manipulators • {the needle being specially adapted to</pre>
17/06166 2017/06171 2017/06176 2017/0618 2017/06185 2017/0619 17/06195 17/062	•	· · ·	· · · · · ·	<pre>{Devices for removing or collecting used needles or sutures (A61B 17/0467 takes precedence; for sharps A61B 50/362)} {Sutures (suture materials A61L 17/00; manufacture of artificial threads D01D; treatment of threads D06M)} • {helically or spirally coiled (for needles A61B 2017/06076)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses A61F 2210/0057)} • {hollow or tubular (hollow suture needles A61B 2017/061)} • {thermoplastic, e.g. for bonding, welding, fusing or cutting the suture by melting it (suture cutters A61B 17/0467; ultrasonic cutters A61B 17/320068; electrically heated instruments A61B 18/08)} {Apparatus or means for preparing the cut end of the suture thread to be attached to the needle, e.g. tipping to prevent brooming (A61B 17/06004 takes precedence)} Needle manipulators • {the needle being specially adapted to interact with the manipulator, e.g. being ridged to snap fit in a hole of the manipulator</pre>
17/06166 2017/06171 2017/06176 2017/0618 2017/06185 2017/06195 17/06195 17/062 17/0625	•	· · · · · · · · ·	· · ·	<pre>{Devices for removing or collecting used needles or sutures (<u>A61B 17/0467</u> takes precedence; for sharps <u>A61B 50/362</u>)} {Sutures (suture materials <u>A61L 17/00</u>; manufacture of artificial threads <u>D01D</u>; treatment of threads <u>D06M</u>)} • {helically or spirally coiled (for needles <u>A61B 2017/06076</u>)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses <u>A61F 2210/0057</u>)} • {hollow or tubular (hollow suture needles <u>A61B 2017/061</u>)} • {thermoplastic, e.g. for bonding, welding, fusing or cutting the suture by melting it (suture cutters <u>A61B 17/0467</u>; ultrasonic cutters <u>A61B 17/320068</u>; electrically heated instruments <u>A61B 18/08</u>)} {Apparatus or means for preparing the cut end of the suture thread to be attached to the needle, e.g. tipping to prevent brooming (<u>A61B 17/06004</u> takes precedence)} Needle manipulators • {the needle being specially adapted to interact with the manipulator, e.g. being ridged to snap fit in a hole of the manipulator (<u>A61B 17/06109</u> takes precedence)}</pre>
17/06166 2017/06171 2017/06176 2017/06185 2017/06185 2017/06195 17/06195 17/062 17/0625	•	· · · · · · · · · · · · · · · · · · ·		<pre>{Devices for removing or collecting used needles or sutures (<u>A61B 17/0467</u> takes precedence; for sharps <u>A61B 50/362</u>)} {Sutures (suture materials <u>A61L 17/00</u>; manufacture of artificial threads <u>D01D</u>; treatment of threads <u>D06M</u>)} • {helically or spirally coiled (for needles <u>A61B 2017/06076</u>)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses <u>A61F 2210/0057</u>)} • {hollow or tubular (hollow suture needles <u>A61B 2017/061</u>)} • {thermoplastic, e.g. for bonding, welding, fusing or cutting the suture by melting it (suture cutters <u>A61B 17/0467</u>; ultrasonic cutters <u>A61B 17/320068</u>; electrically heated instruments <u>A61B 18/08</u>)} {Apparatus or means for preparing the cut end of the suture thread to be attached to the needle, e.g. tipping to prevent brooming (<u>A61B 17/06004</u> takes precedence)} Needle manipulators • {the needle being specially adapted to interact with the manipulator, e.g. being ridged to snap fit in a hole of the manipulator (<u>A61B 17/06109</u> takes precedence)} gical staples, {i.e. penetrating the tissue}</pre>
17/06166 2017/06171 2017/06176 2017/0618 2017/06185 2017/06195 17/06195 17/062 17/0625	•		{1	<pre>{Devices for removing or collecting used needles or sutures (<u>A61B 17/0467</u> takes precedence; for sharps <u>A61B 50/362</u>)} {Sutures (suture materials <u>A61L 17/00</u>; manufacture of artificial threads <u>D01D</u>; treatment of threads <u>D06M</u>)} • {helically or spirally coiled (for needles <u>A61B 2017/06076</u>)} • {with protrusions, e.g. barbs} • {elastic, e.g. stretchable (for prostheses <u>A61F 2210/0057</u>)} • {hollow or tubular (hollow suture needles <u>A61B 2017/061</u>)} • {thermoplastic, e.g. for bonding, welding, fusing or cutting the suture by melting it (suture cutters <u>A61B 17/0467</u>; ultrasonic cutters <u>A61B 17/320068</u>; electrically heated instruments <u>A61B 18/08</u>)} {Apparatus or means for preparing the cut end of the suture thread to be attached to the needle, e.g. tipping to prevent brooming (<u>A61B 17/06004</u> takes precedence)} Needle manipulators • {the needle being specially adapted to interact with the manipulator, e.g. being ridged to snap fit in a hole of the manipulator (<u>A61B 17/06109</u> takes precedence)}</pre>

17/0642	• • {for bones, e.g. for osteosynthesis or connecting tendon to bone}
17/0643	 {with separate closing member, e.g. for interlocking with staple}
17/0644	• • {penetrating the tissue, deformable to closed position}
2017/0645	• {being elastically deformed for insertion}
2017/0646	 (completation) detormed for insertion; (for insertion into cartillege, e.g. meniscus)
2017/0647	 (for insertion into cardinege, e.g. inclused); {having one single leg, e.g. tacks}
2017/0648	 • {having one single leg, e.g. tacks} • {threaded, e.g. tacks with a screw thread}
2017/0649	 . {Coils or spirals}
17/068	 Surgical staplers {, e.g. containing multiple staples or clamps}({staplers containing only one staple <u>A61B 17/10</u>; magazines or containers for staples <u>A61B 17/105</u>; for performing anastomosis <u>A61B 17/115</u>; {staplers in general <u>B25C 5/00</u>})
17/0682	• {for applying U-shaped staples or clamps, e.g. without a forming anvil}
17/0684	••• {having a forming anvil staying above the
	tissue during stapling}
17/0686	• • • {having a forming anvil staying below the
	tissue during stapling}
2017/0688	• • {Packages or dispensers for surgical staplers}
17/072	. for applying a row of staples in a single action $\{,$
	e.g. the staples being applied simultaneously}
17/07207	• • • {the staples being applied sequentially}
2017/07214	• • • {Stapler heads}
2017/07221	• • • • {curved}
2017/07228	• • • {Arrangement of the staples}
2017/07235	• • • {containing different staples, e.g. staples of different shapes, sizes or materials}
2017/07242	•••• {achieving different staple heights during the
	same shot, e.g. using an anvil anvil having different heights or staples of different sizes}
2017/0725	• • • • {with settable gap between anvil and
	cartridge, e.g. for different staple heights at different shots }
2017/07257	• • • {characterised by its anvil}
2017/07264	•••• {characterised by its staple forming
2017/07271	cavities, e.g. geometry or material}
2017/07278 2017/07285	 {characterised by its sled or its staple holder} {characterised by its cutter}
	• •
17/07292 17/076	 {Reinforcements for staple line, e.g. pledgets}. for removing surgical staples {or wound clamps}
17/08	• Wound clamps {or clips, i.e. not or only partly penetrating the tissue (suture bridges
	<u>A61B 17/0466</u>); Devices for bringing together the
	edges of a wound}
2017/081	• • {Tissue approximator (<u>A61B 2017/1103</u> ,
2017/001	A61B 17/8866 take precedence)}
17/083	• • {Clips, e.g. resilient}
17/085	• • {with adhesive layer}
2017/086	• • {having flexible threads, filaments, laces or
	wires, e.g. parallel threads, extending laterally
	from a strip, e.g. for tying to opposing threads
	extending from a similar strip}
2017/088	• • {Sliding fasteners}

17/10	• for applying or removing wound clamps, {e.g.
	containing only one clamp or staple (A61B 17/076
	takes precedence; containing multiple wound
	clamps A61B 17/068)}; Wound clamp magazines (containers, packaging elements or packages
	specially adapted for particular articles or with
	special means for dispensing contents <u>B65D 83/00</u> ,
	<u>B65D 85/00</u>)
17/105	• • {Wound clamp magazines (for packaging sharps <u>A61B 50/3001</u>)}
17/11	 for performing anastomosis; Buttons for anastomosis
2017/1103	Approximator}
2017/1103	• {for blood vessels}
2017/111	 (i) blood vessels) (with means for removing a constriction after
2017/111	performing anastomosis}
17/1114	• {of the digestive tract, e.g. bowels or
	oesophagus}
2017/1117	{adapted for discharge after necrotisation, e.g.
	by evacuation, expulsion or excretion}
2017/1121	• • {adapted for performing tissue or graft eversion}
2017/1125	• • {Forceps, specially adapted for performing or
15/1100	assisting anastomosis}
17/1128	• • {of nerves}
2017/1132	• {End-to-end connections}
2017/1135	• {End-to-side connections, e.g. T- or Y- connections (Y-shaped blood vessel prostheses
	<u>A61F 2002/065</u>)}
2017/1139	• {Side-to-side connections, e.g. shunt or X-
	connections}
2017/1142	• • {Purse-string sutures}
17/1146	• • {of tendons}
17/115	• • Staplers { for performing anastomosis in a single
	operation}
17/1152	• • {applying the staples on the outside of the lumen}
17/1155	• • • {Circular staplers comprising a plurality of
17/1155	staples}
2017/1157	• • {applying the staples radially}
17/12	• for ligaturing or otherwise compressing tubular
	parts of the body, e.g. blood vessels, umbilical cord
	(specially adapted for vas deferens or fallopian
	tubes <u>A61F 6/20;</u> materials for ligaturing blood
2017/12004	vessels <u>A61L 17/00</u>)
2017/12004	
17/12009	• {Implements for ligaturing other than by clamps or clips, e.g. using a loop with a slip knot}
17/12013	• • • { for use in minimally invasive surgery, e.g.
	endoscopic surgery}
2017/12018	• • • {Elastic band ligators}
17/12022	• • {Occluding by internal devices, e.g. balloons
	or releasable wires (plugging an opening in the
	wall of an organ <u>A61B 17/0057</u> ; occluders for the corrigal concl. <u>A61F 6/146</u> ; use deferring
	the cervical canal <u>A61F 6/146;</u> vas deferens occluders <u>A61F 6/20</u>)}
17/12027	• • • {Type of occlusion (<u>A61B 17/12113</u> takes
17/10021	precedence)}
17/12031	{complete occlusion}
17/12036 17/1204	{partial occlusion}
17/1204	 {temporary occlusion} {double occlusion, e.g. during
1//12043	anastomosis}
2017/1205	• • • {Introduction devices}

2017/12054	•	•	•	• {Details concerning the detachment of the
				occluding device from the introduction
				device}
2017/12059	•	•	•	• • {Joint of soluble material}
2017/12063	•	•	•	• • {electrolytically detachable}
2017/12068	•	•	•	• • {detachable by heat}
2017/12072	•	•	•	• • • {the heat created by laser light}
2017/12077	•	•	•	• • • {Joint changing shape upon application
				of heat, e.g. bi-metal or reversible
				thermal memory }
2017/12081	•	•	•	• • {detachable by inflation}
2017/12086	•	•	•	• • {magnetically detachable}
2017/1209			•	• • {detachable by electrical current or
				potential, e.g. electroactive polymer}
2017/12095	•	•	•	• • {Threaded connection}
17/12099		•	•	{characterised by the location of the occluder}
17/12104				• {in an air passage}
17/12109				• {in a blood vessel}
17/12113				• • {within an aneurysm}
17/12118				• • • { for positioning in conjunction with a
				stent}
17/12122				• {within the heart (for closing a cardiac septal
				defect A61B 17/0057)}
2017/12127				{Double occlusion, e.g. for creating blood-free
				anastomosis site}
17/12131				{characterised by the type of occluding device}
17/12136				• {Balloons}
17/1214				• {Coils or wires}
17/12145				• {having a pre-set deployed three-
1,,121.0	•	•	•	dimensional shape (methods of
				manufacturing <u>A61B 2017/00526</u>)}
17/1215				• . {comprising additional materials, e.g.
				thrombogenic, having filaments, having
				fibers, being coated}
17/12154				• • {having stretch limiting means}
17/12159				• {Solid plugs; being solid before insertion}
17/12163				• {having a string of elements connected to
				each other}
17/12168				• {having a mesh structure (A61B 17/1214
				takes precedence)}
17/12172			•	• • {having a pre-set deployed three-
				dimensional shape (methods of
				manufacturing A61B 2017/00526)}
17/12177	•	•	•	• • {comprising additional materials, e.g.
				thrombogenic, having filaments, having
				fibers or being coated}
17/12181	•	•	•	• {formed by fluidized, gelatinous or cellular
17/12181	•	•	•	remodelable materials, e.g. embolic liquids,
	•	•	•	remodelable materials, e.g. embolic liquids, foams or extracellular matrices}
17/12186	•	•	•	remodelable materials, e.g. embolic liquids, foams or extracellular matrices}. {liquid materials adapted to be injected}
	•			 remodelable materials, e.g. embolic liquids, foams or extracellular matrices} . {liquid materials adapted to be injected} . {expandable in contact with liquids}
17/12186	• • •	•	•	 remodelable materials, e.g. embolic liquids, foams or extracellular matrices } {liquid materials adapted to be injected } {expandable in contact with liquids } {comprising a curable material }
17/12186 17/1219	• • •	•	С	 remodelable materials, e.g. embolic liquids, foams or extracellular matrices} . {liquid materials adapted to be injected} . {expandable in contact with liquids} . {comprising a curable material} lamps or clips {, e.g. for the umbilical cord (for
17/12186 17/1219 17/12195	• • •	•	С	 remodelable materials, e.g. embolic liquids, foams or extracellular matrices} {liquid materials adapted to be injected} {expandable in contact with liquids} {comprising a curable material} lamps or clips {, e.g. for the umbilical cord (for e vas deferens <u>A61F 6/206</u>)}
17/12186 17/1219 17/12195		•	С	 remodelable materials, e.g. embolic liquids, foams or extracellular matrices} . {liquid materials adapted to be injected} . {expandable in contact with liquids} . {comprising a curable material} lamps or clips {, e.g. for the umbilical cord (for e vas deferens A61F 6/206)} {Packages or dispensers therefor (clip
17/12186 17/1219 17/12195 17/122		•	С	 remodelable materials, e.g. embolic liquids, foams or extracellular matrices} . {liquid materials adapted to be injected} . {expandable in contact with liquids} . {comprising a curable material} lamps or clips {, e.g. for the umbilical cord (for e vas deferens <u>A61F 6/206</u>)} {Packages or dispensers therefor (clip magazines incorporated in a clip-applying
17/12186 17/1219 17/12195 17/122	•	•	С	 remodelable materials, e.g. embolic liquids, foams or extracellular matrices} . {liquid materials adapted to be injected} . {expandable in contact with liquids} . {comprising a curable material} lamps or clips {, e.g. for the umbilical cord (for e vas deferens <u>A61F 6/206</u>)} {Packages or dispensers therefor (clip magazines incorporated in a clip-applying instrument <u>A61B 17/128</u>; for surgical articles
17/12186 17/1219 17/12195 17/122 17/1222	• • •	•	С	 remodelable materials, e.g. embolic liquids, foams or extracellular matrices} . {liquid materials adapted to be injected} . {expandable in contact with liquids} . {comprising a curable material} lamps or clips {, e.g. for the umbilical cord (for e vas deferens <u>A61F 6/206</u>)} {Packages or dispensers therefor (clip magazines incorporated in a clip-applying instrument <u>A61B 17/128</u>; for surgical articles <u>A61B 50/30</u>)}
17/12186 17/1219 17/12195 17/122 17/1222 2017/1225	• • •	•	С	 remodelable materials, e.g. embolic liquids, foams or extracellular matrices} . {liquid materials adapted to be injected} . {expandable in contact with liquids} . {comprising a curable material} lamps or clips {, e.g. for the umbilical cord (for e vas deferens <u>A61F 6/206</u>)} {Packages or dispensers therefor (clip magazines incorporated in a clip-applying instrument <u>A61B 17/128</u>; for surgical articles <u>A61B 50/30</u>)} {for clipping and cutting in a single operation}
17/12186 17/1219 17/12195 17/122 17/1222 2017/1225 17/1227	• • •	•	C th	 remodelable materials, e.g. embolic liquids, foams or extracellular matrices} . {liquid materials adapted to be injected} . {expandable in contact with liquids} . {comprising a curable material} lamps or clips {, e.g. for the umbilical cord (for e vas deferens A61F 6/206)} {Packages or dispensers therefor (clip magazines incorporated in a clip-applying instrument A61B 17/128; for surgical articles A61B 50/30)} {for clipping and cutting in a single operation} {Spring clips}
17/12186 17/1219 17/12195 17/122 17/1222 2017/1225 17/1227 17/1228	• • • •	•	· ch · · ·	 remodelable materials, e.g. embolic liquids, foams or extracellular matrices} . {liquid materials adapted to be injected} . {expandable in contact with liquids} . {comprising a curable material} lamps or clips {, e.g. for the umbilical cord (for e vas deferens A61F 6/206)} {Packages or dispensers therefor (clip magazines incorporated in a clip-applying instrument A61B 17/128; for surgical articles A61B 50/30)} {for clipping and cutting in a single operation} {Spring clips} r applying or removing clamps or clips
17/12186 17/1219 17/12195 17/122 17/1222 2017/1225 17/1225 17/1227 17/128 17/1285	• • • • •	•	· C th · ·	 remodelable materials, e.g. embolic liquids, foams or extracellular matrices} . {liquid materials adapted to be injected} . {expandable in contact with liquids} . {comprising a curable material} lamps or clips {, e.g. for the umbilical cord (for e vas deferens A61F 6/206)} {Packages or dispensers therefor (clip magazines incorporated in a clip-applying instrument A61B 17/128; for surgical articles A61B 50/30)} {for clipping and cutting in a single operation} {Spring clips} r applying or removing clamps or clips {for minimally invasive surgery}
17/12186 17/1219 17/12195 17/122 17/1222 2017/1225 17/1227 17/1228	· · · ·	• • •	· C th · ·	 remodelable materials, e.g. embolic liquids, foams or extracellular matrices} . {liquid materials adapted to be injected} . {expandable in contact with liquids} . {comprising a curable material} lamps or clips {, e.g. for the umbilical cord (for e vas deferens A61F 6/206)} {Packages or dispensers therefor (clip magazines incorporated in a clip-applying instrument A61B 17/128; for surgical articles A61B 50/30)} {for clipping and cutting in a single operation} {Spring clips} r applying or removing clamps or clips

17/1322	 . {comprising a flexible encircling member (A61B 17/135 takes precedence)}
17/1325	• • • { with means for applying local pressure (pressure pads <u>A61F 5/30</u>)}
17/1327	• • • {Tensioning clamps}
17/135	• • • • • • • • • • • • • • • • • • •
17/155	<u>A61B 5/022;</u> inflatable pressure pads <u>A61F 5/34</u>)
17/1355	• • • {Automated control means therefor}
17/14	• Surgical saws ({ <u>A61B 17/1637</u> takes precedence;}
17/14	tooth saws $(12010 - 1771057)$ takes precedence, j
17/142	
17/142	edges at the distal end of the saw blades}
17/144	• • • {with cutting edges at the side of the saw blades}
17/147	 {with circularly moving saw blades, i.e. non- reciprocating saw blades}
17/149	• {Chain, wire or band saws}
17/15	• Guides therefor {(arrangements for guiding straight saw blades in general <u>B23D 51/025</u>)}
17/151	• • { for corrective osteotomy }
17/152	• • • • {for removing a wedge-shaped piece of bone}
17/154	• • • {for preparing bone for knee prosthesis}
17/155	• • • {Cutting femur}
17/157	• • • • {Cutting tibia}
17/158	• • • {Cutting patella}
17/16	• {Bone cutting, breaking or removal means other
	than saws, e.g.} Osteoclasts; Drills or chisels for bones; Trepans {(arthroscopic bone cutters
	A61B 17/320016; dental implant drills potentially
	for other surgical use <u>A61C 8/0089</u> ; bone grinders
	for other surgical use <u>A61C 8/0089</u> ; bone grinders <u>A61F 2/4644</u> , <u>A22C 17/06</u> ; <u>A61B 17/1662</u> takes
	A61F 2/4644, A22C 17/06; A61B 17/1662 takes
	A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except
2017/1602	<u>A61F 2/4644</u> , <u>A22C 17/06</u> ; <u>A61B 17/1662</u> takes precedence over all other subgroups except <u>A61B 17/17</u>)}
2017/1602	<u>A61F 2/4644, A22C 17/06; A61B 17/1662</u> takes precedence over all other subgroups except <u>A61B 17/17</u>)} • • {Mills}
17/1604	 <u>A61F 2/4644</u>, <u>A22C 17/06</u>; <u>A61B 17/1662</u> takes precedence over all other subgroups except <u>A61B 17/17</u>)} . {Mills} . {Chisels; Rongeurs; Punches; Stamps}
17/1604 17/1606	 <u>A61F 2/4644, A22C 17/06; A61B 17/1662</u> takes precedence over all other subgroups except <u>A61B 17/17</u>)} . {Mills} . {Chisels; Rongeurs; Punches; Stamps} . {of forceps type, i.e. having two jaw elements moving relative to each other}
17/1604	 <u>A61F 2/4644, A22C 17/06; A61B 17/1662</u> takes precedence over all other subgroups except <u>A61B 17/17</u>)} . {Mills} . {Chisels; Rongeurs; Punches; Stamps} . {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to
17/1604 17/1606	 <u>A61F 2/4644, A22C 17/06; A61B 17/1662</u> takes precedence over all other subgroups except <u>A61B 17/17</u>)} . {Mills} . {Chisels; Rongeurs; Punches; Stamps} . {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving
17/1604 17/1606	 <u>A61F 2/4644, A22C 17/06; A61B 17/1662</u> takes precedence over all other subgroups except <u>A61B 17/17</u>)} . {Mills} . {Chisels; Rongeurs; Punches; Stamps} . {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to
17/1604 17/1606	 <u>A61F 2/4644, A22C 17/06; A61B 17/1662</u> takes precedence over all other subgroups except <u>A61B 17/17</u>)} . {Mills} . {Chisels; Rongeurs; Punches; Stamps} . {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other}
17/1604 17/1606 17/1608	 <u>A61F 2/4644, A22C 17/06; A61B 17/1662</u> takes precedence over all other subgroups except <u>A61B 17/17</u>)} . {Mills} . {Chisels; Rongeurs; Punches; Stamps} . {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with
17/1604 17/1606 17/1608 17/1611	 <u>A61F 2/4644, A22C 17/06; A61B 17/1662</u> takes precedence over all other subgroups except <u>A61B 17/17</u>)} . {Mills} . {Chisels; Rongeurs; Punches; Stamps} . {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements}
17/1604 17/1606 17/1608 17/1611 17/1613	 <u>A61F 2/4644, A22C 17/06; A61B 17/1662</u> takes precedence over all other subgroups except <u>A61B 17/17</u>)} . {Mills} . {Chisels; Rongeurs; Punches; Stamps} . {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts}
17/1604 17/1606 17/1608 17/1611	 <u>A61F 2/4644, A22C 17/06; A61B 17/1662</u> takes precedence over all other subgroups except <u>A61B 17/17</u>)} . {Mills} . {Chisels; Rongeurs; Punches; Stamps} . {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} . {Component parts} . {Drill bits, i.e. rotating tools extending from a
17/1604 17/1606 17/1608 17/1611 17/1613 17/1615	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Drill bits, i.e. rotating tools extending from a handpiece to contact the worked material}
17/1604 17/1606 17/1608 17/1611 17/1613 17/1615 17/1617	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Drill bits, i.e. rotating tools extending from a handpiece to contact the worked material} {with mobile or detachable parts}
17/1604 17/1606 17/1608 17/1611 17/1613 17/1615	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Drill bits, i.e. rotating tools extending from a handpiece to contact the worked material} {With mobile or detachable parts} {Chucks or tool parts which are to be held in a chuck}
17/1604 17/1606 17/1608 17/1611 17/1613 17/1615 17/1617	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Drill bits, i.e. rotating tools extending from a handpiece to contact the worked material} {With mobile or detachable parts} {Chucks or tool parts which are to be held in a chuck} {Drill handpieces (A61B 17/1626,
17/1604 17/1606 17/1608 17/1611 17/1613 17/1615 17/1617 17/162 17/1622	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {Of forceps type, i.e. having two jaw elements moving relative to each other} { the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} { the two jaw elements being integral with respective elongate shaft elements} { Component parts} { Drill bits, i.e. rotating tools extending from a handpiece to contact the worked material} { with mobile or detachable parts} { Chucks or tool parts which are to be held in a chuck} { Drill handpieces (A61B 17/1626, A61B 17/1628 take precedence)}
17/1604 17/1606 17/1608 17/1611 17/1613 17/1615 17/1615 17/162 17/1622 17/1624	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Drill bits, i.e. rotating tools extending from a handpiece to contact the worked material} {with mobile or detachable parts} {Chucks or tool parts which are to be held in a chuck} {Drill handpieces (A61B 17/1626, A61B 17/1628 take precedence)} {Drive mechanisms therefor}
17/1604 17/1606 17/1608 17/1611 17/1613 17/1613 17/1615 17/1617 17/162 17/1622 17/1624 17/1624	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Drill bits, i.e. rotating tools extending from a handpiece to contact the worked material} {With mobile or detachable parts} {Chucks or tool parts which are to be held in a chuck} {Drill handpieces (A61B 17/1626, A61B 17/1628 take precedence)} {Control means; Display units}
17/1604 17/1606 17/1608 17/1611 17/1613 17/1613 17/1615 17/1615 17/162 17/1622 17/1624 17/1624 17/1628	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Drill bits, i.e. rotating tools extending from a handpiece to contact the worked material} {with mobile or detachable parts} {Chucks or tool parts which are to be held in a chuck} {Drill handpieces (A61B 17/1626, A61B 17/1628 take precedence)} {Control means; Display units} {Motors; Power supplies}
17/1604 17/1606 17/1608 17/1611 17/1613 17/1613 17/1615 17/1617 17/162 17/1622 17/1624 17/1624	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17)} (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Drill bits, i.e. rotating tools extending from a handpiece to contact the worked material} {with mobile or detachable parts} {Chucks or tool parts which are to be held in a chuck} {Drive mechanisms therefor} {Control means; Display units} {Special drive shafts, e.g. flexible shafts (A61B 17/1642, A61B 17/164, take
17/1604 17/1606 17/1608 17/1611 17/1613 17/1615 17/1615 17/1617 17/162 17/1622 17/1624 17/1628 17/1628 17/1631	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Drill bits, i.e. rotating tools extending from a handpiece to contact the worked material} {with mobile or detachable parts} {Chucks or tool parts which are to be held in a chuck} {Drill handpieces (A61B 17/1626, A61B 17/1628 take precedence)} {Wotors; Power supplies} {Special drive shafts, e.g. flexible shafts (A61B 17/1642, A61B 17/164 take precedence)}
17/1604 17/1606 17/1608 17/1611 17/1613 17/1613 17/1615 17/1615 17/162 17/1622 17/1624 17/1624 17/1628	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Drill bits, i.e. rotating tools extending from a handpiece to contact the worked material} {with mobile or detachable parts} {Chucks or tool parts which are to be held in a chuck} {Drill handpieces (A61B 17/1626, A61B 17/1628 take precedence)} {Control means; Display units} {Special drive shafts, e.g. flexible shafts (A61B 17/1642, A61B 17/164 take precedence)} {Sleeves, i.e. non-rotating parts surrounding
17/1604 17/1606 17/1608 17/1611 17/1613 17/1615 17/1615 17/1617 17/162 17/1622 17/1624 17/1628 17/1628 17/1631	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Component parts} {Trill bits, i.e. rotating tools extending from a handpiece to contact the worked material} {with mobile or detachable parts} {Chucks or tool parts which are to be held in a chuck} {Drill handpieces (A61B 17/1626, A61B 17/1628 take precedence)} {Control means; Display units} {Special drive shafts, e.g. flexible shafts (A61B 17/1642, A61B 17/164 take precedence)} {Sleeves, i.e. non-rotating parts surrounding the bit shaft, e.g. the sleeve forming a single
17/1604 17/1606 17/1608 17/1611 17/1613 17/1615 17/1615 17/1617 17/162 17/1622 17/1624 17/1628 17/1628 17/1631	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Drill bits, i.e. rotating tools extending from a handpiece to contact the worked material} {with mobile or detachable parts} {Chucks or tool parts which are to be held in a chuck} {Drill handpieces (A61B 17/1626, A61B 17/1628 take precedence)} {Control means; Display units} {Special drive shafts, e.g. flexible shafts (A61B 17/1642, A61B 17/164 take precedence)} {Sleeves, i.e. non-rotating parts surrounding
17/1604 17/1606 17/1608 17/1611 17/1613 17/1615 17/1615 17/1617 17/162 17/1622 17/1624 17/1628 17/1628 17/1631	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Component parts} {Trill bits, i.e. rotating tools extending from a handpiece to contact the worked material} {with mobile or detachable parts} {Chucks or tool parts which are to be held in a chuck} {Drill handpieces (A61B 17/1626, A61B 17/1628 take precedence)} {Control means; Display units} {Special drive shafts, e.g. flexible shafts (A61B 17/1642, A61B 17/164 take precedence)} {Sleeves, i.e. non-rotating parts surrounding the bit shaft, e.g. the sleeve forming a single
17/1604 17/1606 17/1608 17/1611 17/1613 17/1615 17/1617 17/1622 17/1622 17/1622 17/1624 17/1626 17/1628 17/1631	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17)} (Mills) {Chisels; Rongeurs; Punches; Stamps} { of forceps type, i.e. having two jaw elements moving relative to each other} { the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} { the two jaw elements being integral with respective elongate shaft elements} { Component parts} { Component parts} { Trill bits, i.e. rotating tools extending from a handpiece to contact the worked material} { with mobile or detachable parts} { Chucks or tool parts which are to be held in a chuck} { Drill handpieces (A61B 17/1626, A61B 17/1628 take precedence)} { Control means; Display units} { Motors; Power supplies} { Special drive shafts, e.g. flexible shafts (A61B 17/1642, A61B 17/164 take precedence)} { Sleeves, i.e. non-rotating parts surrounding the bit shaft, e.g. the sleeve forming a single unit with the bit shaft (A61B 17/1644 takes precedence)}
17/1604 17/1606 17/1608 17/1611 17/1613 17/1615 17/1615 17/1617 17/162 17/1622 17/1624 17/1628 17/1628 17/1631	 A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17) (Mills) {Chisels; Rongeurs; Punches; Stamps} {of forceps type, i.e. having two jaw elements moving relative to each other} {the two jaw elements being linked to two elongated shaft elements moving longitudinally relative to each other} {the two jaw elements being integral with respective elongate shaft elements} {Component parts} {Component parts} {Trill bits, i.e. rotating tools extending from a handpiece to contact the worked material} {with mobile or detachable parts} {Chucks or tool parts which are to be held in a chuck} {Drill handpieces (A61B 17/1626, A61B 17/1628 take precedence)} {Control means; Display units} {Motors; Power supplies} {Special drive shafts, e.g. flexible shafts (A61B 17/1642, A61B 17/164 take precedence)} {Sleeves, i.e. non-rotating parts surrounding the bit shaft, e.g. the sleeve forming a single unit with the bit shaft (A61B 17/1644 takes

17/1637	• • {Hollow drills or saws producing a curved cut, e.g. cylindrical (<u>A61B 10/025</u> , <u>A61B 17/1695</u>
	take precedence)}
17/164	• • {intramedullary}
17/1642	• • {for producing a curved bore}
17/1644	• • {using fluid other than turbine drive fluid}
17/1646	• • • {with sealing means}
2017/1648	• • • {as cutting jet}
2017/1651	• • {for cooling}
2017/1653	••• {for lubrication}
17/1655	 . {for tapping}
	 . {Bone breaking devices}
17/1657	
17/1659	• {Surgical rasps, files, planes, or scrapers}
17/1662	• { for particular parts of the body }
17/1664	• • • {for the hip}
17/1666	• • • • {for the acetabulum}
17/1668	• • • {for the upper femur (<u>A61B 17/164</u> takes precedence)}
17/1671	• • • {for the spine}
17/1673	• • • {for the jaw}
17/1675	• • { for the knee }
17/1677	• • • { for the patella }
17/1679	• • { for the ear }
17/1682	• • { for the foot or ankle }
17/1684	• • • { for the shoulder }
17/1686	• • • {for the hand or wrist}
17/1688	• • • {for the sinus or nose}
17/1691	• • • {for the sternum}
17/1693	• • • {for the ribs}
17/1695	• • {Trepans or craniotomes, i.e. specially adapted
	for drilling thin bones such as the skull}
17/1697	• {specially adapted for wire insertion}
17/17	• Guides {or aligning means} for drills {, mills, pins or wires}
17/1703	• • {using imaging means, e.g. by X-rays}
17/1707	• • • {using electromagnetic effects, e.g. with
	magnet and external sensors}
17/171	• • { for external fixation }
17/1714	• • { for applying tendons or ligaments
	(implements for applying tendons or ligaments A61F 2/0805)}
17/1717	• • • {for applying intramedullary nails or pins}
17/1721	• • {for applying pins along or parallel to the axis of the femoral neck}
17/1725	• • • { for applying transverse screws or pins through intramedullary nails or pins }
17/1728	• • { for holes for bone plates or plate screws }
17/1732	• • { for bone breaking devices }
17/1735	• • • {for rasps or chisels}
17/1739	• • • { specially adapted for particular parts of the
	body}
17/1742	• • • • {for the hip}
17/1746	• • • • { for the acetabulum }
17/175	•••• { for preparing the femur for hip prosthesis insertion }
17/1753	•••• { for fixing pins through femoral hip prostheses }
17/1757	• • • • {for the spine}
17/176	• • • { for the jaw (guiding dental drills <u>A61C 1/082</u>) }
17/1764	• • • • {for the knee}
17/1767	•••• {for the patella}

	A61B
• • • •	 {for the ear} {for the foot or ankle} {for the shoulder} {for the hand or wrist} {for the sinus or nose} {for the sternum} {for the ribs} . {for holes for sutures or flexible wires} for vaccinating or cleaning the skin previous to the vaccination (diagnosis by vaccination {other than by injuring the skin <u>A61B 10/0035</u>}; apparatus for injections <u>A61M</u>)
	NOTE
	Cleaning the skin previous to the vaccination is classified in $A61B 90/80$
•	• {Vaccinating by means of needles or other puncturing devices}
•	Implements for squeezing-off ulcers or the like on {the inside of} inner organs of the body; Implements for scraping-out cavities of body organs, e.g. bones; Calculus removers; Calculus

17/1771

17/1775

17/1778

17/1782 17/1785

17/1789

17/1792

17/1796 17/20

17/205

17/22

	smashing apparatus; { Apparatus for removing						
	obstructions in blood vessels, not otherwise						
	provided for (dilators <u>A61M 29/00</u>)}						
2017/22001	• • {Angioplasty, e.g. PCTA}						
2017/22002	• • {preventing restenosis}						
17/22004	• • {using mechanical vibrations, e.g. ultrasonic						
	shock waves (<u>A61B 17/225</u> takes precedence)}						
2017/22005	• • {Effects, e.g. on tissue}						
2017/22007	{Cavitation or pseudocavitation, i.e. creation						
	of gas bubbles generating a secondary shock						
	wave when collapsing}						
2017/22008	• • • • {used or promoted}						
2017/22009	• • • • {reduced or prevented}						
2017/22011	• • • {Combined types of vibration, e.g. ultrasonic						
	and electrohydraulic}						
17/22012	• • {in direct contact with, or very close to, the						
	obstruction or concrement (for removing						
	obstructions in blood vessels by laser						
2017/20014	<u>A61B 18/245</u>)}						
2017/22014	• • • • { the ultrasound transducer being outside						
	patient's body; with an ultrasound transmission member; with a wave guide;						
	with a vibrated guide wire (not applied in						
	A61B 17/22012)}						
2017/22015	• • • • {with details of the transmission member}						
2017/22017	•••••• {the ultrasonic transmitting members						
2017/22017	being fibres }						
2017/22018	••••• {segmented along its length}						
17/2202	• • • { the ultrasound transducer being inside						
	patient's body at the distal end of the						
	catheter}						
2017/22021	•••• {electric leads passing through the						
	catheter}						
17/22022	• • • {using electric discharge}						
2017/22024	• • • { with a part reflecting mechanical vibrations,						
	e.g. for focusing}						
2017/22025	• • • {applying a shock wave (<u>A61B 2017/22091</u>						
	takes precedence)}						
2017/22027	• • • {Features of transducers}						
2017/22028	• • • { arrays, e.g. phased arrays }						
17/22029	• • • {Means for measuring shock waves}						

17/22031	•••	{Gripping instruments, e.g. forceps, for removing or smashing calculi (<u>A61B 17/221</u> takes precedence)}
17/22032	•••	 {having inflatable gripping elements (balloon catheters <u>A61M 25/10</u>)}
2017/22034	•••	• {for gripping the obstruction or the tissue part from inside}
2017/22035	• •	• {for retrieving or repositioning foreign objects}
2017/22037	• •	{Fecal impaction removal}
2017/22038	• •	{with a guide wire}
2017/22039		• {eccentric}
2017/22041		• {outside the catheter}
2017/22042		• {Details of the tip of the guide wire}
2017/22044		• • {with a pointed tip}
2017/22045		• {fixed to the catheter; guiding tip}
2017/22047		• {Means for immobilising the guide wire in the
		patient}
2017/22048		• • {Balloons}
2017/22049		• {Means for locking the guide wire in the
		catheter}
2017/22051		{with an inflatable part, e.g. balloon, for positioning, blocking, or immobilisation (A61B 2017/22048, A61B 2017/3486 take precedence)}
2017/22052		• {eccentric}
2017/22054		• {with two balloons}
2017/22055		
2017/22055		
2017/22058		 ("Free properties") (reflective)
2017/22059		• {transparent}
2017/22061		• {for spreading elements apart}
2017/22062		 {to be filled with liquid}
2017/22062	•••	 (to be fined with inquit) {transparent liquid}
2017/22065	• •	 Functions of balloons (dilating <u>A61M 29/02</u>)
2017/22067		 (Functions of balloons (and the <u>Profile</u> <u>Profile <u>Profile</u> <u>Profile</u> <u>Profile</u> <u>Profile</u> <u>Profile Profile</u> <u>Pro</u></u>
2017/22068		• {Centering}
2017/22069	•••	 {Immobilising; Stabilising}
2017/22071	••	• {Steering}
		{with an instrument channel, e.g. for replacing
2017/22012		one instrument by the other (in cannulas A61B 17/3417)}
2017/22074	• •	• {the instrument being only slidable in a
		channel, e.g. advancing optical fibre through a channel}
2017/22075		• • {with motorized advancing or retracting
2017/22077		means}• {with a part piercing the tissue
2017/22078		(A61B 2017/22044 takes precedence)} • {for rotating the instrument within a channel,
		e.g. an optical fibre}
2017/22079	• •	{with suction of debris}
2017/22081	• •	{Treatment of vulnerable plaque}
2017/22082	• •	{after introduction of a substance}
2017/22084		• {stone- or thrombus-dissolving}
2017/22085	•••	• {light-absorbing (<u>A61B 2017/22087</u> takes precedence)}
2017/22087		• {photodynamic}
2017/22088		• {ultrasound absorbing, drug activated by
		ultrasound}
2017/22089	• •	• {Gas-bubbles}
2017/22091	• •	• {Explosive}
2017/22092	• •	• {Lubricant}

2017/22094	• • {for crossing total occlusions, i.e. piercing}
2017/22095	• • • {accessing a blood vessel true lumen from the
2011/22070	sub-intimal space}
0017/00007	- · · ·
2017/22097	• • {Valve removal in veins}
2017/22098	• • {Decalcification of valves}
17/221	• • Gripping devices in the form of loops or
	baskets {for gripping calculi or similar types
	of obstructions (surgical snare instruments
	A61B 17/32056)}
2017/2212	
2017/2212	• • {having a closed distal end, e.g. a loop}
2017/2215	• • • {having an open distal end}
2017/2217	• • • { single wire changing shape to a gripping
	configuration}
17/225	• for extracorporeal shock wave lithotripsy
177225	[ESWL], e.g. by using ultrasonic waves
17/0051	
17/2251	• • • {characterised by coupling elements between
	the apparatus, e.g. shock wave apparatus or
	locating means, and the patient, e.g. details of
	bags, pressure control of bag on patient}
2017/2253	• • • • {using a coupling gel or liquid}
17/2255	• • {Means for positioning patient, shock
1112233	wave apparatus or locating means, e.g.
	mechanical aspects, patient beds, support arms,
	aiming means (positioning of patients for
	radiation diagnosis <u>A61B 6/04;</u> positioning of
	locating means inside shock wave apparatus
	<u>A61B 17/2256</u>)}
17/2256	• • • { with means for locating or checking the
	concrement, e.g. X-ray apparatus, imaging
	means (A61B $17/2255$ takes precedence)}
17/2258	• • • { integrated in a central portion of the shock
17/2238	
	wave apparatus}
17/24	for use in the oral cavity larvny bronchial passages
1//24	. for use in the oral cavity, larynx, bronchial passages
1//24	or nose (for medical inspection of cavities or tubes
17724	or nose (for medical inspection of cavities or tubes
	or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers
2017/242	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages}
2017/242 17/244	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue}
2017/242 17/244 2017/246	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose}
2017/242 17/244	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose} . {Operations for treatment of snoring, e.g.
2017/242 17/244 2017/246	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose}
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2017/242 17/244 2017/246 2017/248	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose} . {Operations for treatment of snoring, e.g. uvulopalatoplasty}
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2017/242 17/244 2017/246 2017/248 17/26 17/28 17/2804 2017/2808 17/2812 17/2816 17/282	 or nose (for medical inspection of cavities or tubes in the body A61B 1/00); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose} . {Operations for treatment of snoring, e.g. uvulopalatoplasty} . Tonsillotomes, with or without means for stopping bleeding Surgical forceps ({for holding suture needles or materials A61B 17/0483; for removing or smashing calculi A61B 17/221; surgical scissors A61B 17/3201}; obstetrical forceps A61B 17/44; for inserting intraocular lenses A61F 2/1662; hand- held gripping tools in general B25B 7/00]) . {with two or more pivotal connections (A61B 17/29 takes precedence)} . {Clamp, e.g. towel clamp} . {With a single pivotal connection (A61B 17/29 takes precedence)} . {Pivots} . {Jaws}
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2017/242 17/244 2017/246 2017/248 17/26 17/28 17/2804 2017/2808 17/2812 17/2816 17/282	 or nose (for medical inspection of cavities or tubes in the body A61B 1/00); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose} . {Operations for treatment of snoring, e.g. uvulopalatoplasty} . Tonsillotomes, with or without means for stopping bleeding Surgical forceps ({for holding suture needles or materials A61B 17/0483; for removing or smashing calculi A61B 17/221; surgical scissors A61B 17/3201}; obstetrical forceps A61B 17/44; for inserting intraocular lenses A61F 2/1662; hand- held gripping tools in general B25B 7/00]) . {with two or more pivotal connections (A61B 17/29 takes precedence)} . {Clamp, e.g. towel clamp} . {With a single pivotal connection (A61B 17/29 takes precedence)} . {Pivots} . {Jaws}
2017/242 17/244 2017/246 2017/248 17/26 17/28 17/2804 2017/2808 17/2812 17/2816 17/2816 17/282 2017/2825	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose} . {Operations for treatment of snoring, e.g. uvulopalatoplasty} . Tonsillotomes, with or without means for stopping bleeding . Surgical forceps ({for holding suture needles or materials <u>A61B 17/0483</u>; for removing or smashing calculi <u>A61B 17/221</u>; surgical scissors <u>A61B 17/3201</u> ; obstetrical forceps <u>A61B 17/44</u>; for inserting intraocular lenses <u>A61F 2/1662</u>; hand- held gripping tools in general <u>B25B 7/00</u>]) . {with two or more pivotal connections (<u>A61B 17/29</u> takes precedence)} . {Clamp, e.g. towel clamp} . {With a single pivotal connection (<u>A61B 17/29</u> takes precedence)} . {Pivots} . {Jaws} {Inserts of different material in jaws}
2017/242 17/244 2017/246 2017/248 17/26 17/28 17/2804 2017/2808 17/2812 17/2816 17/2812 2017/2825 2017/2829 17/2833	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose} . {Operations for treatment of snoring, e.g. uvulopalatoplasty} . Tonsillotomes, with or without means for stopping bleeding . Surgical forceps ({for holding suture needles or materials <u>A61B 17/0483</u>; for removing or smashing calculi <u>A61B 17/221</u>; surgical scissors <u>A61B 17/3201</u>}; obstetrical forceps <u>A61B 17/44</u>; for inserting intraocular lenses <u>A61F 2/1662</u>; hand- held gripping tools in general <u>B25B 7/00</u>]) . {with two or more pivotal connections (<u>A61B 17/29</u> takes precedence)} . {Clamp, e.g. towel clamp} . {With a single pivotal connection (<u>A61B 17/29</u> takes precedence)} . {Inserts of different material in jaws} {With a removable cover} {Locking means}
2017/242 17/244 2017/246 2017/248 17/26 17/28 17/2804 2017/2808 17/2812 17/2816 17/2812 17/2816 17/282 2017/2825 2017/2825 2017/2829 17/2833 2017/2837	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose} . {Operations for treatment of snoring, e.g. uvulopalatoplasty} . Tonsillotomes, with or without means for stopping bleeding Surgical forceps ({for holding suture needles or materials <u>A61B 17/0483</u>; for removing or smashing calculi <u>A61B 17/221</u>; surgical scissors <u>A61B 17/3201</u>}; obstetrical forceps <u>A61B 17/44</u>; for inserting intraocular lenses <u>A61F 2/1662</u>; hand- held gripping tools in general <u>B25B 7/00</u>]) . {with two or more pivotal connections (<u>A61B 17/29</u> takes precedence)} . {Clamp, e.g. towel clamp} . {With a single pivotal connection (<u>A61B 17/29</u> takes precedence)} . {Inserts of different material in jaws} {With a removable cover} . {Locking means} {with a locking ratchet}
2017/242 17/244 2017/246 2017/248 17/26 17/28 17/2804 2017/2808 17/2812 17/2816 17/2812 17/2816 17/282 2017/2825 2017/2825 2017/2833 2017/2837 17/2841	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose} . {Operations for treatment of snoring, e.g. uvulopalatoplasty} . Tonsillotomes, with or without means for stopping bleeding Surgical forceps ({for holding suture needles or materials <u>A61B 17/0483</u>; for removing or smashing calculi <u>A61B 17/221</u>; surgical scissors <u>A61B 17/3201</u> ; obstetrical forceps <u>A61B 17/44</u>; for inserting intraocular lenses <u>A61F 2/1662</u>; hand- held gripping tools in general <u>B25B 7/00</u>]) . {with two or more pivotal connections (<u>A61B 17/29</u> takes precedence)} . {Clamp, e.g. towel clamp} . {with a single pivotal connection (<u>A61B 17/29</u> takes precedence)} . {Inserts of different material in jaws} {With a removable cover} . {with a locking ratchet} {With a locking ratchet} {Handles}
2017/242 17/244 2017/246 2017/248 17/26 17/28 17/2804 2017/2808 17/2812 17/2816 17/2812 17/2816 17/282 2017/2825 2017/2825 2017/2825 2017/2837 17/2841 2017/2845	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose} . {Operations for treatment of snoring, e.g. uvulopalatoplasty} . Tonsillotomes, with or without means for stopping bleeding Surgical forceps ({for holding suture needles or materials <u>A61B 17/0483</u>; for removing or smashing calculi <u>A61B 17/221</u>; surgical scissors <u>A61B 17/3201</u> ; obstetrical forceps <u>A61B 17/44</u>; for inserting intraocular lenses <u>A61F 2/1662</u>; hand- held gripping tools in general <u>B25B 7/00</u>]) . {with two or more pivotal connections (<u>A61B 17/29</u> takes precedence)} . {Clamp, e.g. towel clamp} . {With a single pivotal connection (<u>A61B 17/29</u> takes precedence)} . {Inserts of different material in jaws} {With a removable cover} . {With a locking ratchet} {With a spring pushing the handle back}
2017/242 17/244 2017/246 2017/248 17/26 17/28 17/2804 2017/2808 17/2812 17/2816 17/2812 17/2816 17/282 2017/2825 2017/2825 2017/2833 2017/2837 17/2841	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose} . {Operations for treatment of snoring, e.g. uvulopalatoplasty} . Tonsillotomes, with or without means for stopping bleeding Surgical forceps ({for holding suture needles or materials <u>A61B 17/0483</u>; for removing or smashing calculi <u>A61B 17/221</u>; surgical scissors <u>A61B 17/3201</u> ; obstetrical forceps <u>A61B 17/44</u>; for inserting intraocular lenses <u>A61F 2/1662</u>; hand- held gripping tools in general <u>B25B 7/00</u>]) . {with two or more pivotal connections (<u>A61B 17/29</u> takes precedence)} . {Clamp, e.g. towel clamp} . {with a single pivotal connection (<u>A61B 17/29</u> takes precedence)} . {Inserts of different material in jaws} {With a removable cover} . {with a locking ratchet} {With a locking ratchet} {Handles}
2017/242 17/244 2017/246 2017/248 17/26 17/28 17/2804 2017/2808 17/2812 17/2816 17/2812 17/2816 17/282 2017/2825 2017/2825 2017/2825 2017/2837 17/2841 2017/2845	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose} . {Operations for treatment of snoring, e.g. uvulopalatoplasty} . Tonsillotomes, with or without means for stopping bleeding Surgical forceps ({for holding suture needles or materials <u>A61B 17/0483</u>; for removing or smashing calculi <u>A61B 17/221</u>; surgical scissors <u>A61B 17/3201</u> ; obstetrical forceps <u>A61B 17/44</u>; for inserting intraocular lenses <u>A61F 2/1662</u>; hand- held gripping tools in general <u>B25B 7/00</u>]) . {with two or more pivotal connections (<u>A61B 17/29</u> takes precedence)} . {Clamp, e.g. towel clamp} . {With a single pivotal connection (<u>A61B 17/29</u> takes precedence)} . {Inserts of different material in jaws} {With a removable cover} . {With a locking ratchet} {With a spring pushing the handle back}
2017/242 17/244 2017/246 2017/248 17/26 17/28 17/2804 2017/2808 17/2812 17/2816 17/2812 2017/2825 2017/2825 2017/2825 2017/2833 2017/2837 17/2841 2017/2845 17/285	 or nose (for medical inspection of cavities or tubes in the body <u>A61B 1/00</u>); Tongue scrapers . {for bronchial passages} . {for cleaning of the tongue} . {for cleaning of the nose} . {Operations for treatment of snoring, e.g. uvulopalatoplasty} . Tonsillotomes, with or without means for stopping bleeding Surgical forceps ({for holding suture needles or materials <u>A61B 17/0483</u>; for removing or smashing calculi <u>A61B 17/221</u>; surgical scissors <u>A61B 17/3201</u> ; obstetrical forceps <u>A61B 17/44</u>; for inserting intraocular lenses <u>A61F 2/1662</u>; hand- held gripping tools in general <u>B25B 7/00</u>]) . {with two or more pivotal connections (<u>A61B 17/29</u> takes precedence)} . {Clamp, e.g. towel clamp} . {With a single pivotal connection (<u>A61B 17/29</u> takes precedence)} . {Pivots} . {Jaws} {Inserts of different material in jaws} {with a locking ratchet} {With a locking ratchet} {with a spring pushing the handle back} . combined with cutting implements

2017/2902	• • • • {characterized by features of the actuating
	rod}
2017/2903	••••• {transferring rotary motion}
2017/2904	• • • {curved, but rigid}
2017/2905	{flexible}
2017/2906	{Multiple forceps}
2017/2908	• • • • {Multiple segments connected by
	articulations}
17/2909	{Handles}
2017/291	• • • { the position of the handle being adjustable
2017/2011	with respect to the shaft}
2017/2911	•••• {rings}
2017/2912	• • • • {transmission of forces to actuating rod or
2017/2913	<pre>piston }</pre>
2017/2915	• • • • {arcuate shaped guiding means}
2017/2915	{pins in guiding slots}
2017/2910	{with flexible part}
2017/2917	{flexible handles}
2017/2919	{details of linkages or pivot points}
2017/292	••••••• {connection of actuating rod to handle,
2017/272	e.g. ball end in recess}
2017/2922	••••••••••••••••••••••••••••••••••••••
2017/2923	••••• {Toothed members, e.g. rack and pinion}
2017/2924	• • • • {Translation movement of handle without
	rotating movement}
2017/2925	•••• {Pistol grips}
2017/2926	• • • {Details of heads or jaws}
2017/2927	\cdot \cdot \cdot {the angular position of the head being
	adjustable with respect to the shaft}
2017/2929	• • • • { with a head rotatable about the
2017/202	longitudinal axis of the shaft}
2017/293	••••• {with means preventing relative rotation between the shaft and the actuating rod}
2017/2931	• • • { with releasable head }
2017/2931	• • • {Transmission of forces to jaw members}
2017/2932	{camming or guiding means}
2017/2933	• • • • • {arcuate shaped guiding means}
2017/2936	{Pins in guiding slots}
2017/2937	••••••••••••••••••••••••••••••••••••••
2017/2938	••••••••••••••••••••••••••••••••••••••
2017/2/30	e.g. two actuating rods}
2017/2939	•••• {Details of linkages or pivot points}
2017/294	••••• {Connection of actuating rod to jaw, e.g.
	releasable }
2017/2941	••••• {Toggle linkages}
2017/2943	•••• {Toothed members, e.g. rack and pinion}
2017/2944	• • • • {Translation of jaw members}
2017/2945	• • • • {Curved jaws}
2017/2946	{Locking means}
2017/2947	· · · {Pivots}
2017/2948	• • {Sealing means, e.g. for sealing the interior from fluid entry}
17/295	• • • combined with cutting implements
17/30	Surgical pincettes {without pivotal
11/50	connections}({for holding suture needles or
	materials A61B 17/0483; } wound clamps
	A61B 17/08 {; hand-held gripping tools without
	pivotal connections in general <u>B25B 9/02</u> })
2017/301	• • {with three legs}
2017/303	• • {with four or more legs}

2017/305		• {Tweezer like handles with tubular extensions,
		inner slidable actuating members and distal tools,
		e.g. microsurgical instruments}
2017/306	•	 {holding by means of suction}
2017/308	•	• • {with suction cups}
17/32	•	Surgical cutting instruments {(A61B 18/042
		takes precedence; suture cutters <u>A61B 17/0467</u> ;
		instruments for ligaturing or cutting A61B 17/128;
		instruments for rupturing the amniotic membrane
		<u>A61B 17/4208;</u> specially adapted knives for eye surgery <u>A61F 9/0133</u>)}
2017/220004		• {abrasive}
		 . {Scrapers} . {Brushes}
		{Brushes}{Endoscopic cutting instruments, e.g.
17/320010	•	arthroscopes, resectoscopes (<u>A61B 10/0233</u> ,
		A61B 17/29, $A61B 17/3207$ take precedence)
17/32002		• {with continuously rotating, oscillating or
		reciprocating cutting instruments}
2017/320024		• • {Morcellators, e.g. having a hollow cutting
		tube with an annular cutter for morcellating
		and removing tissue}
2017/320028	•	• • • {with reciprocating movements}
2017/320032	•	• • {Details of the rotating or oscillating shaft,
		e.g. using a flexible shaft}
		• • {adapted for use within the carpal tunnel}
2017/32004	•	• • {having a laterally movable cutting member
		at its most distal end which remains within the
0017/000011		contours of said end}
2017/320044	•	• {Blunt dissectors (blunt suture needles
2017/320048		<u>A61B 2017/06085</u>)} {Balloon dissectors}
		 {Balloon dissectors} {Guides for cutting instruments (by marking
2017/320032	•	$\frac{A61B 2090/395}{A61B 2090/395}$
2017/320056		• {Tunnelers}
		{with a cutting strip, band or chain, e.g. like a
2017/32000	•	chainsaw}
2017/320064		• {with tissue or sample retaining means}
		• {using mechanical vibrations, e.g. ultrasonic
		(A61B 17/22012 takes precedence; dental tooth
		drilling devices operated by vibration A61C 3/03;
		removing intra-ocular material using mechanical
		vibrations <u>A61F 9/00745</u>)}
		• • {for ablating tissue}
		• • {with suction or vacuum means}
		• • {with articulating means for working tip}
2017/320072	•	• • {Working tips with special features, e.g.
2017/220072		extending parts}
		{probe}
		{blade}
		 {single edge blade, e.g. for cutting} {double edge blade, e.g. reciprocating}
		• • • {Tissue manipulating surface}
		• • {preventing clogging of suction channel}
		. {for incising tissue}. {Irrigation sleeves}
2017/320088	•	• • {with acoustic insulation, e.g. elements for damping vibrations between horn and
		surrounding sheath}
2017/320089		 . {node location}
		 {node at distal end of cutting means}
		 . {with additional movable means for clamping
11020072	•	or cutting tissue, e.g. with a pivoting jaw}
		6

2017/320093	•	•	• • {additional movable means performing	
2017/200004			cutting operation}	
2017/320094	•	•	• • {additional movable means performing	
2017/220005			clamping operation}	
			• • {with sealing or cauterizing means}	20
			• • {with stapling means}	20
			• {with transverse or torsional motion}	
17/3201			Scissors (for biopsy <u>A61B 10/02</u>)	
17/3203			Fluid jet cutting instruments	
2017/32032			• {using cavitation of the fluid}	
			• {with gas or air}	
17/32037	•	•	• {for removing obstructions from inner organs	
17/3205			or blood vessels, e.g. for atherectomy} Excision instruments	
17/3205	•	-		
17/32033	•	•	• {Punch like cutting instruments, e.g. using a cylindrical or oval knife (A61B 17/326 takes	
			precedence; trepans <u>A61B 17/1695</u> ; for use on	
			the cornea A61F 9/007)}	20
17/32056			• {Surgical snare instruments (for removing	20
			or smashing calculi <u>A61B 2017/2212;</u>	20
			tonsillotomes A61B 17/26)}	20
17/3207			• Atherectomy devices {working by cutting or	
			abrading; Similar devices specially adapted	20
			for non-vascular obstructions (A61B 17/32037	
			takes precedence; endoscopic cutting	
			instruments <u>A61B 17/320016</u>)}	
			• • {Curettes, e.g. hollow scraping instruments}	
2017/320716	•	•	• • {comprising means for preventing embolism	
15/000505			by dislodged material}	
17/320725	•	•	• • {with radially expandable cutting or	
			abrading elements (<u>A61B 17/32075</u> takes precedence)}	20
2017/320733			• {with a flexible cutting or scraping element,	20
2017/320733	•	•	e.g. with a whip-like distal filament member}	
2017/320741			• { for stripping the intima or the internal	
2017/0207 11	•	•	plaque from a blood vessel, e.g. for	
			endarterectomy}	20
17/32075		•	• • {Pullback cutting; combined forward and	20
			pullback cutting, e.g. with cutters at both	20
			sides of the plaque }	
17/320758	•	•	• • { with a rotating cutting instrument,	
			e.g. motor driven (<u>A61B 17/320725</u> ,	
			<u>A61B 17/32075</u> and <u>A61B 17/320783</u>	20
			take precedence; for removing intra-ocular	
			material <u>A61F 9/00763</u> ; endoscopic rotatable cutting instruments <u>A61B 17/32002</u>)}	20
2017/320766				20
2017/320700			 {eccentric} {Morcellators, impeller or propeller like 	
2017/520775	•	•	means}	
17/320783		_		
11/020700	•	•	cutter inside catheter}	
2017/320791			• • • {with cutter extending outside the cutting	20
			window}	20
17/3209		•	Incision instruments	20
17/32093	•	•	• {for skin incisions}	20
2017/32096	•	•	• {for slowly cutting through tissue, e.g. stent	
			like temporary implants having sharp edges}	20
17/3211	•	•	• Surgical scalpels, knives; Accessories therefor	20
2017/32113	•	•	• • {with extendable or retractable guard or	
			blade}	20
2017/32116	•	•	• • {with means for improving the rigidity of the	
			blade, e.g. with a reinforcing rib}	20
17/3213	•		• • with detachable blades	

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17/3215	• • • Packages or dispensers for scalpel blades
17/3217	<pre>{(for sharps <u>A61B 50/3001</u>)} Devices for removing or collecting used</pre>
15/222	scalpel blades {(for sharps <u>A61B 50/362</u>)}
17/322	• Skin grafting apparatus
2017/3225	• • • {with processing of harvested tissue}
17/326	• Circumcision apparatus
17/34	• Trocars; Puncturing needles {(pointed biopsy instruments <u>A61B 10/0233</u> ; devices for piercing the ear-lobes <u>A44C 7/001</u> ; seals or hemostasis valves <u>A61M 39/06</u>)}
17/3401	• {Puncturing needles for the peridural or
17/3/01	subarachnoid space or the plexus, e.g. for anaesthesia (local anaesthesia <u>A61M 19/00</u>)}
17/3403	• {Needle locating or guiding means (guides for
11/0/00	suture needles <u>A61B 17/0482</u> ; guiding or tracking by nuclear magnetic resonance <u>G01R 33/285</u>)}
2017/3405	• • {using mechanical guide means}
2017/3407	• • • {including a base for support on the body}
2017/3409	• • • {including needle or instrument drives}
2017/3411	• • • { with a plurality of holes, e.g. holes in matrix
	arrangement}
2017/3413	• • • {guided by ultrasound}
17/3415	• • {for introducing tubes or catheters, e.g.
	gastrostomy tubes, drain catheters (<u>A61B 17/3417</u> takes precedence; body piercing catheter guide needles <u>A61M 25/06</u>)}
17/3417	 {Details of tips or shafts, e.g. grooves, expandable, bendable; Multiple coaxial sliding cannulas, e.g. for dilating (syringe needles <u>A61M 5/32</u>; dilators <u>A61M 29/00</u>)}
2017/3419	• • {Sealing means between cannula and body}
17/3421	• • {Cannulas}
17/3423	• • • {Access ports, e.g. toroid shape introducers
	for instruments or hands (access sites for liquids A61M 39/0247)}
2017/3425	• • • • {for internal organs, e.g. heart ports}
2017/3427	{for intercostal space}
2017/3429	••••• {having a unitary compressible body, e.g.
17/3431	made of silicone or foam} {being collapsible, e.g. made of thin flexible
2017/3433	 a terms compared, e.g. made of thin flexible material (<u>A61B 17/3423</u> takes precedence)} {with different outer diameters of the
2017/3433	cannula}
2017/3435	• • • • {using everted sleeves}
2017/3435	 {with means for removing or absorbing fluid,
_011/01/01	e.g. wicks or absorbent pads}
17/3439	• • • • { with means for changing the inner
	diameter of the cannula, e.g. expandable
	(<u>A61B 17/3423</u> , <u>A61B 17/3431</u> take
2017/2441	precedence; catheters <u>A61M 25/0662</u>)}
2017/3441	• • • • {with distal sealing means}
2017/3443	• • • { with means for adjusting the length of a cannula }
2017/3445	• • • { used as instrument channel for multiple instruments (catheters <u>A61B 2017/22072</u>)}
2017/3447	• • • • {Linked multiple cannulas}
2017/3447	• • • • {United multiple califications}
	into one single channel}
2017/345	• • • {for introduction into a natural body opening}
2017/3452	• • • • {for the rectum, e.g. for hemorrhoid
	surgery }
2017/3454	{Details of tips}

2017/3456	•••• {blunt}
2017/3458	• • • • {threaded}
2017/346	• • • • $\{\text{with wings}\}$
17/3462	• • {with means for changing the diameter or the orientation of the entrance port of the cannula, e.g. for use with different-sized instruments, reduction ports, adapter seals (expandable cannulas <u>A61B 17/3417</u>)}
2017/3464	• • { with means acting on inner surface of valve or seal for expanding or protecting, e.g. inner pivoting fingers }
2017/3466	• • { for simultaneous sealing of multiple instruments }
17/3468	 {for implanting or removing devices, e.g. prostheses, implants, seeds, wires (devices for implanting seeds <u>A61M 37/0069</u>)}
2017/347	• • {Locking means, e.g. for locking instrument in cannula}
17/3472	• • {for bones, e.g. intraosseus injections}
17/3474	• • {Insufflating needles, e.g. Veress needles}
17/3476	• • {Powered trocars, e.g. electrosurgical cutting, lasers, powered knives}
17/3478	• {Endoscopic needles, e.g. for infusion (biopsy needles <u>A61B 10/0233</u> ; catheters with injection needles <u>A61M 25/0067</u>)}
2017/348	• • {Means for supporting the trocar against the body or retaining the trocar inside the body}
2017/3482	• • • {inside}
2017/3484	• • • {Anchoring means, e.g. spreading-out umbrella-like structure}
2017/3486	•••• {Balloon}
2017/3488	• • • • {Fixation to inner organ or inner body tissue}
2017/349	• • • {Trocar with thread on outside}
2017/3492	• • {against the outside of the body}
17/3494	• • {with safety means for protection against accidental cutting or pricking, e.g. limiting
	insertion depth, pressure sensors (for the peridural space <u>A61B 17/3401</u>)}
17/3496	• • {Protecting sleeves or inner probes; Retractable tips (for protecting body piercing guide needles <u>A61M 25/0612</u>)}
17/3498	 {Valves therefor, e.g. flapper valves, slide valves (haemostasis valves <u>A61M 39/06</u>; check valves <u>A61M 39/24</u>)}
17/42	 Gynaecological or obstetrical instruments or methods {(ligaturing clamps or clips for the umbilical cord <u>A61B 17/122</u>; curettage <u>A61B 17/320708</u>; dilators <u>A61M 29/00</u>)}
17/4208	• • {Instruments for rupturing the amniotic membrane}
2017/4216	• • {Operations on uterus, e.g. endometrium}
2017/4225	• • • {Cervix uteri}
2017/4233	• • {Operations on Fallopian tubes, e.g. sterilization (A61B 2017/1125 takes precedence)}
17/4241	• • {Instruments for manoeuvring or retracting the uterus, e.g. during laparoscopic surgery}
17/425	• for reproduction or fertilisation {(specially adapted for use with animals <u>A61D 19/00</u>)}
17/43	• • • for artificial insemination
17/435	for embryo {or ova} transplantation
17/44	. Obstetrical forceps
17/442	• • • {without pivotal connections, e.g. using
	vacuum}

2017/445	• • { with force indication }
2017/447	• • • { with force limitation }
17/46	• Embryotomes (for animals <u>A61D 1/10</u>)
17/48	• Bags for midwives
17/50	• Instruments, other than pincettes or toothpicks,
	for removing foreign bodies from the human
	body (locating otherwise A61B 5/06; locating
	by radiation A61B 6/00; {removing calculi
	<u>A61B 17/22;</u> from the eyes <u>A61F 9/00709</u> })
2017/505	• {Parasite, e.g. tick, removers}
17/52	Magnets
17/54	• Chiropodists' instruments {, e.g. pedicure
	(chiropractic devices <u>A61H 1/008</u>)}
17/545	• • {using a stream or spray of abrasive particles}
17/56	• Surgical instruments or methods for treatment of
	bones or joints; Devices specially adapted therefor
	<u>NOTES</u>
	1. Documents concerning exclusively surgical
	methods are classified only in this group.
	2. Surgical instruments or devices are classified
	only in the relevant subgroups
2017/561	• • {Implants with special means for releasing a
	drug}
17/562	• • {Implants for placement in joint gaps without
	restricting joint motion, e.g. to reduce arthritic
	pain}
2017/564	• • {Methods for bone or joint treatment}
2017/565	• • • { for surgical correction of axial deviation, e.g.
	hallux valgus or genu valgus}
2017/567	• • {Joint mechanisms or joint supports in addition to
0015/570	the natural joints and outside the joint gaps}
2017/568	. {produced with shape and dimensions specific for an individual patient}
17/58	
17/38	• for osteosynthesis, e.g. bone plates, screws {, setting implements} or the like (A61B 17/14,
	<u>A61B 17/16</u> take precedence)
17/60	• • for external osteosynthesis, e.g. distractors,
17/00	contractors
2017/603	• • • {with three points of contact, e.g. tripod}
2017/606	• • • • • • • • • • • • • • • • • • •
17/62	Ring frames, i.e. devices extending
11/02	around the bones to be positioned
	({ <u>A61B 17/6433</u> }, <u>A61B 17/66</u> take
	precedence)
17/64	Devices extending alongside the bones to be
	positioned
17/6408	• • • • {Devices not permitting mobility, e.g.
	fixed to bed, with or without means for
	traction or reduction (without surgery
15/6416	<u>A61F 5/04</u>)}
17/6416	• • • • {with non-continuous, e.g. hinged, pin-
	clamp connecting element (<u>A61B 17/6425</u> , <u>A61B 17/6441</u> take precedence)}
17/6425	• • • • {specially adapted to be fitted across a
17/0423	bone joint}
17/6433	•••• {specially adapted for use on body parts
	other than limbs, e.g. trunk or head}
17/6441	\ldots (Bilateral fixators, i.e. with both ends of
	pins or wires clamped}
17/645	\ldots {comprising a framework (<u>A61B 17/6425</u> ,
18/2/50	$\underline{A61B \ 17/6441} \text{ take precedence} \}$
17/6458	• • • • {with pin-clamps fixed at ends of connecting element}
	connecting element}

17/6466	•••	•	 {with pin-clamps movable ald connecting rod} 	ong a solid
17/6475				hrandad)
	•••	•	• • • {the connecting rod being t	
17/6483	•••	•	 . {the connecting rod having circular section} 	a non-
17/6491	•••	•	 {allowing small-scale motion ends} 	of bone
17/66	•••	•	• {Alignment}, compression or di	straction
			mechanisms	
17/663	•••	•	• { for jaw bones, e.g. subcutan	
			distractors with external acces	
			(periodontal bone regeneratio <u>A61C 8/0006</u>)}	n
17/666			• • {for alveolar distraction}	
17/68	•••	•	Internal fixation devices {, includi	ng
17/00	•••	•	fasteners and spinal fixators, even	
			thereof projects from the skin (bor	
			A61B 17/0642)}	
2017/681			• {Alignment, compression, or di	straction
			mechanisms}	
17/683			• {comprising bone transfixation	elements, e.g.
			bolt with a distal cooperating el	
			a nut}	
17/685			• {Elements to be fitted on the en	d of screws
			or wires, e.g. protective caps}	
17/686	• •	•	• {Plugs, i.e. elements forming in	
			between bone hole and implant	or fastener,
			e.g. screw}	
17/688	•••	•	• {for reattaching pieces of the sk	
17/70	• •	•	• Spinal positioners or stabilisers	
			stabilisers comprising fluid fille	r in an
			implant}	
17/7001	•••	•	• {Screws or hooks combined v	
			longitudinal elements which o	
			contact vertebrae (<u>A61B 17/7</u> precedence)}	<u>058</u> takes
17/7002			• • {Longitudinal elements, e.	r roda)
17/7002	•••	•	•••• { with a cross-section wh	
17/7004	•••	•	along its length (A61B 1	
			precedence)}	<u>1///01/</u> takes
17/7005			• • • • {Parts of the longitudi	nal elements
1111002	•••	•	e.g. their ends, being s	
			adapted to fit in the sci	
			heads}	
17/7007			• • • • • {Parts of the longitudi	nal elements,
			e.g. their ends, being s	pecially
			adapted to fit around the	ne screw or
			hook heads}	
17/7008	• •	•	• • • • • { with parts of, or attac	
			longitudinal elements,	
			against an outside of the	
			or hook heads, e.g. nut	
			threaded rods (<u>A61B 1</u>	<u>///00/</u> takes
17/701			<pre>precedence)} {Longitudinal elements v </pre>	with a
1///01	•••	•	non-circular, e.g. rectang	
			cross-section (A61B 17/	
			<u>A61B 17/7007</u> take prec	
17/7011			{Longitudinal element b	
1777011	- •	•	non-straight, e.g. curved,	
			or branched (adjustable 1	
			longitudinal elements A6	
			<u>A61B 17/7019</u> takes pred	
			coil springs)}	-

17/7013	••••••••••••••••••••••••••••••••••••••
17/7014	••••••••••••••••••••••••••••••••••••••
17/7016	•••••• {electric or electromagnetic means}
17/7017	•••••• {pneumatic or hydraulic means}
17/7019	• • • • • • {Longitudinal elements having
1111012	flexible parts, or parts connected together, such that after implantation the elements can move relative to each other}
17/702	••••••••••••••••••••••••••••••••••••••
17/7022	••••••••••••••••••••••••••••••••••••••
17/7023	•••••• {with a pivot joint}
17/7025	•••••• {with a sliding joint}
17/7026	••••••••••••••••••••••••••••••••••••••
17/7028	••••••••••••••••••••••••••••••••••••••
17/7029	••••••••••••••••••••••••••••••••••••••
17/7031	••••••••••••••••••••••••••••••••••••••
17/7032	••••• {Screws or hooks with U-shaped head or back through which longitudinal rods pass}
17/7034	••••• {characterised by a lateral opening}
17/7035	••••• {Screws or hooks, wherein a rod- clamping part and a bone-anchoring part can pivot relative to each other}
17/7037	••••• {wherein pivoting is blocked when the rod is clamped}
17/7038	••••• {to a different extent in different directions, e.g. within one plane only}
17/704	••••• {the longitudinal element passing through a ball-joint in the screw head}
17/7041	••••••••••••••••••••••••••••••••••••••
17/7043	••••• {with a longitudinal element fixed to one or more transverse elements which
17/7044	 connect multiple screws or hooks}
17/7046	 bearing on the vertebrae } {the screws or hooks being mobile in use relative to the longitudinal element (A61B 17/702, A61B 17/7035 take precedence))
17/7047	<pre>precedence)}</pre>
17/7049	which grasp one vertebra between them} {Connectors, not bearing on the vertebrae,
17/705	for linking longitudinal elements together (<u>A61B 17/7055</u> , <u>A61B 17/7053</u> , <u>A61B 17/7019</u> take precedence)} {for linking adjacent ends of
	longitudinal elements}

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/	
17/7052	• • • • • {of variable angle or length}
17/7053	•••• {with parts attached to bones or to each other by flexible wires, straps, sutures or cables}
17/7055	• • • • {connected to sacrum, pelvis or skull}
17/7056	• • • • {Hooks with specially-designed bone- contacting part}
17/7058	• • • • {Plates mounted on top of bone anchor heads or shoulders}
17/7059	••••••••••••••••••••••••••••••••••••••
17/7061	• • • • { for stabilising vertebrae or discs by improving the condition of their tissues,
	e.g. using implanted medication or fluid exchange (intraosseous injection devices <u>A61B 17/3472</u>)}
17/7062	•••• {Devices acting on, attached to, or simulating the effect of, vertebral processes, vertebral facets or ribs (rib fixation devices <u>A61B 17/8076</u>); Tools for
17/7064	 such devices } {Devices acting on, attached to, or simulating the effect of, vertebral facets;
17/7065	Tools therefor} ••••• {Devices with changeable shape, e.g. collapsible or having retractable arms to aid implantation; Tools therefor}
17/7067	••••••••••••••••••••••••••••••••••••••
17/7068	therefor }
17/707	each side of spinous processes; Tools therefor} {Devices acting on, or attached to,
17/707	a transverse process or rib; Tools therefor}
17/7071	•••• {Implants for expanding or repairing the vertebral arch or wedged between laminae or pedicles; Tools therefor}
2017/7073	••••• {with intervertebral connecting element crossing an imaginary spinal median
17/7074	surface }surface ;specially adapted for spinal
11/10/4	fixation operations other than for bone removal or filler handling (<u>A61B 17/7062</u> , <u>A61B 17/808</u> , <u>A61B 17/8858</u> take precedence; for spinal image producing
	devices <u>A61B 90/36</u> , <u>A61B 34/20</u> ; markers <u>A61B 90/39</u>)}
17/7076	••••• {for driving, positioning or assembling spinal clamps or bone anchors specially adapted for spinal fixation}
17/7077	 {for moving bone anchors attached to vertebrae, thereby displacing the vertebrae}
17/7079	••••••••••••••••••••••••••••••••••••••
17/708	anchor motion}

17/7082	•••••• {for driving, i.e. rotating, screws or screw parts specially adapted
	for spinal fixation, e.g. for driving polyaxial or tulip-headed screws (driving other bone screws
17/7083	A61B 17/8875)} {Tools for guidance or insertion of
	tethers, rod-to-anchor connectors,
	rod-to-rod connectors, or longitudinal elements}
17/7085	• • • • • • {for insertion of a longitudinal
	element down one or more hollow
	screw or hook extensions, i.e. at least a part of the element within
	an extension has a component of
	movement parallel to the extension's axis}
17/7086	• • • • • • {Rod reducers, i.e. devices providing
	a mechanical advantage to allow a
	user to force a rod into or onto an anchor head other than by means of a
	rod-to-bone anchor locking element;
17/7000	rod removers}
17/7088	
	anchor}
17/7089	••••••••••••••••••••••••••••••••••••••
17/7091	••••• {for applying, tightening or removing
	longitudinal element-to-bone anchor
	locking elements, e.g. caps, set screws, nuts or wedges}
17/7092	••••• {for checking pedicle hole has correct
	depth or has an intact wall (pedicle drill depth limiters <u>A61B 17/1626</u>)}
17/7094	• • • • {Solid vertebral fillers; devices for
	inserting such fillers}
17/7095	••••• {the filler comprising unlinked macroscopic particles}
17/7097	• • • • • {Stabilisers comprising fluid filler in an
	implant, e.g. balloon; devices for inserting
	or filling such implants (disc prostheses made of inflatable chambers or pockets
	filled with fluid A61F 2/441; replacing the
17/7098	<pre>nucleus pulposus <u>A61F 2002/444</u>)} {wherein the implant is permeable or</pre>
17/7098	has openings, e.g. fenestrated screw
	(hollow surgical screws <u>A61B 17/864</u>)}
17/72	• • • Intramedullary {pins, nails or other} devices {(A61B 17/744 takes precedence)}
17/7208	• • • • {Flexible pins, e.g. ENDER pins}
17/7216	• • • • {for bone lengthening or compression
17/7225	(A61B 17/7258 takes precedence)} {for bone compression}
17/7233	••••• {with special means of locking the nail to
15/50.41	the bone }
17/7241	••••• {the nail having separate elements through which screws pass}
17/725	••••• {with locking pins or screws of special
17/7258	form} {with laterally expanding parts, e.g. for
1111230	gripping the bone}
17/7266	•••••• {with fingers moving radially
17/7275	outwardly}

17/7283 17/7291	 {with special cross-section of the nail} {for small bones, e.g. in the foot, ankle,
17/74	hand or wrist}Devices for the head {or neck or trochanter}
17/74	of the femur {(trochanteric devices connected to the proximal part of an endoprosthetic femoral shaft <u>A61F 2/30739</u> ; endoprosthetic internal fixation devices for the head or neck of the femur <u>A61F 2/3601</u>)}
17/742	••••• {having one or more longitudinal elements oriented along or parallel to the axis of the neck}
17/744	••••• {the longitudinal elements coupled to an intramedullary nail}
17/746	••••• {the longitudinal elements coupled to a plate opposite the femoral head}
17/748	••••• { with means for adapting the angle between the longitudinal elements and the shaft axis of the femur}
17/80	Cortical plates {, i.e. bone plates; Instruments for holding or positioning cortical plates, or for compressing bones
17/2004	attached to cortical plates}
17/8004	• • • • { with means for distracting or compressing the bone or bones }
17/8009	•••• {the plate having a ratchet}
17/8014	{the extension or compression force being caused by interaction of the plate hole and the screws}
17/8019	••••• {where the means are a separate tool rather than being part of the plate}
17/8023	• • • • {Variable length plates adjustable in both directions}
17/8028	• • • • {Cushions, i.e. elements forming interface between bone plate and bone}
17/8033	•••• {having indirect contact with screw heads, or having contact with screw heads maintained with the aid of additional components, e.g. nuts, wedges or head covers}
17/8038	••••• {the additional component being inserted in the screw head}
17/8042	••••• {the additional component being a cover over the screw head}
17/8047	••••• {wherein the additional element surrounds the screw head in the plate hole (A61B 17/8052 takes precedence)}
17/8052	 {immobilised relative to screws by interlocking form of the heads and plate holes, e.g. conical or threaded}
17/8057	••••• {the interlocking form comprising a thread}
17/8061	••••• {specially adapted for particular bones (<u>A61B 17/70</u> and <u>A61B 17/74</u> take precedence)}
17/8066	• • • • • {for pelvic reconstruction}
17/8071	\ldots {for the jaw}
17/8076	{for the ribs or the sternum}
17/808	• • • • {Instruments for holding or positioning bone plates, or for adjusting screw-to-plate locking mechanisms}
17/8085	••••• {with pliable or malleable elements or having a mesh-like structure, e.g. small strips (A61B 17/8071, A61B 17/8076 take precedence)}

17/809		•	• {with bone-penetrating elements,
			e.g. blades or prongs (bone staples
			A61B 17/0642; intramedullary nails with a
			plate at an end <u>A61B 17/7233</u>)}
17/8095	• • •	•	• {Wedge osteotomy devices}
17/82	• • •	•	for bone cerclage {(apparatus for
			manipulating wires or straps A61B 17/8861;
			wires, bands or straps other than cerclage
			<u>A61B 17/842</u>)}
17/823	• • •	•	• {for the sternum}
17/826	• • •	•	• {Nets or webs}
17/84	•••	•	Fasteners therefor {or fasteners being internal fixation devices}
17/842		•	• {Flexible wires, bands or straps
			(<u>A61B 17/72</u> , <u>A61B 17/82</u> , <u>A61B 17/86</u>
			take precedence)}
17/844	• • •	•	• {with expandable anchors or anchors
			having movable parts }
17/846	•••	•	• {Nails or pins, i.e. anchors without
			movable parts, holding by friction
			only, with or without structured $A_{1}^{2} = A_{1}^{2} + A_{2}^{2} + A_{3}^{2} + A_{4}^{2} + A_{5}^{2} + A_{5}^{$
			surface (<u>A61B 17/72</u> , <u>A61B 17/86</u> take
17/040			(<i>Virgebrar wirge is thin long pails</i>)
17/848	•••	•	• • {Kirschner wires, i.e. thin, long nails}
17/86	•••	•	• Pins or screws {or threaded wires; nuts therefor (<u>A61B 17/72</u> take precedence)}
17/9605			
17/8605	• • •	•	• • {Heads, i.e. proximal ends projecting from bone}
17/861			• • {specially shaped for gripping driver}
17/8615	• • •	•	{at the central region of the screw
1//0015	• • •	•	head}
17/862			• • • {at the periphery of the screw
17/802	•••	•	head}
17/8625			• {Shanks, i.e. parts contacting bone
17/0025	•••	•	tissue}
17/863			• • • {with thread interrupted or changing
1//005	•••	•	its form along shank, other than
			constant taper}
17/8635			• • {Tips of screws}
17/864			• {hollow, e.g. with socket or cannulated}
17/8645			• {Headless screws, e.g. ligament
		-	interference screws}
17/865			• • {Packages or dispensers for bone screws
			or threaded wires}
2017/8655			• • {with special features for locking in the
			bone}
17/866			• • {Material or manufacture}
17/8665			• • {Nuts}
2017/867			• • • {with integral locking or clamping
			means}
2017/8675			•••• {clamping effect due to tapering,
			e.g. conical thread}
2017/868		•	•••• {self-locking due to part of nut
			being deformed upon tightening}
17/8685		•	• • {comprising multiple separate parts}
17/869		•	• • {characterised by an open form, e.g.
			wire helix }
17/8695		•	• • {Washers (surrounding screw head in
			plate hole A61B 17/8047, between bone
			plate and bone <u>A61B 17/8028</u>)}
17/88	• • •		Osteosynthesis instruments; } Methods or
			eans for implanting or extracting internal {or
			(A61B 17/7074) kternal fixation devices {
		ta	kes precedence)}

A61B

17/8802		•	•	{Equipment for handling bone cement or
17/0005				other fluid fillers}
17/8805	••	•	•	• {for introducing fluid filler into bone or extracting it (<u>A61B 17/7097</u> , <u>A61B 17/8823 take precedence</u>)]
17/8808				<u>A61B 17/8833</u> take precedence)} • {with sealing collar for bone cavity}
17/8811	•••	•	•	 {whill scaling contain for bone cavity} {characterised by the introducer tip, i.e.
17/0011	••	•	•	the part inserted into or onto the bone}
2017/8813		•	•	• • {Discharging means for excessively introduced fluid fillers, e.g. discharging
17/0016				excess cement}
17/8816	•••	•	•	 {characterised by the conduit, e.g. tube, along which fluid flows into the body or by conduit connections}
17/8819		•	•	• • {characterised by the introducer
				proximal part, e.g. cannula handle, or by parts which are inserted inside each other, e.g. stylet and cannula (A61B 17/8825 takes precedence)}
17/8822	••	•	•	• • {characterised by means facilitating expulsion of fluid from the introducer, e.g. a screw pump plunger, hydraulic
				force transmissions, application of
17/8825				vibrations or a vacuum}(characterised by syringe details)
17/0023	•••	•	•	(<u>A61B 17/8822</u> , <u>A61B 17/8827</u> take
				precedence)}
17/8827	•••	•	•	 {with filtering, degassing, venting or pressure relief means}
2017/883				• {Means for indicating hardening of bone
				cement}
17/8833	•••	•	•	• {Osteosynthesis tools specially adapted for handling bone cement or fluid fillers; Means for supplying bone cement or fluid fillers to introducing tools, e.g. cartridge handling means}
17/8836	•••	•	•	 . {for heating, cooling or curing of bone cement or fluid fillers}
2017/8838				• { for mixing bone cement or fluid fillers }
17/8841				• {Tools specially adapted to engage a
				prosthesis}
2017/8844	•••	•	•	• {Means for determining the viscosity of bone cement}
17/8847	•••	•	•	• {for removing cement from a bone cavity
				(using surgical bone chisels, drills, mills, rasps, reamers or scrapers <u>A61B 17/16</u> ; using laser <u>A61B 18/20</u> ; using ultrasonic surgical instruments <u>A61N 7/00</u>)}
17/885	•••	•	•	{Tools for expanding or compacting bones or discs or cavities therein (<u>A61B 17/8805</u> , <u>A61B 17/7097</u> take precedence)}
17/8852	•••	•	•	• {capable of being assembled or enlarged, or changing shape, inside the bone or disc}
17/8855	••	•	•	• • {inflatable, e.g. kyphoplasty balloons}
17/8858	••	•	•	• • {laterally or radially expansible
				(inflatable <u>A61B 17/8855</u>)}
17/8861	•••	•	•	{Apparatus for manipulating flexible wires or straps (devices for inserting Kirschner wires <u>A61B 17/1697</u>)}
17/8863	•••	•	•	{Apparatus for shaping or cutting osteosynthesis equipment by medical personnel}
17/8866				{for gripping or pushing bones,
1,,0000		•	•	e.g. approximators (joint distractors <u>A61B 17/025</u>)}

17/8869	• • • {Tensioning devices}
17/8872	• • • • {Instruments for putting said fixation
	devices against or away from the bone
	(A61B 17/7074, A61B 17/808 take
	precedence)}
17/8875	• • • {Screwdrivers, spanners or wrenches}
17/8877	• • • • • {characterised by the cross-section of the
	driver bit}
17/888	••••• (the driver bit acting on the central
	region of the screw head}
17/8883	• • • • • {the driver bit acting on the periphery of
	the screw head}
17/8886	• • • • {holding the screw head}
17/8888	••••• {at its central region}
17/8891	••••• {at its periphery}
17/8894	• • • • • {holding the implant into or through which
	the screw is to be inserted (A61B 17/7082,
	A61B 17/7091 take precedence)}
17/8897	• • • • {Guide wires or guide pins}
17/90	Guides therefor
17/92	Impactors or extractors, e.g. for removing
	intramedullary devices {(insertion or
	extraction of artificial joints <u>A61F 2/4603</u>)}
17/921	• • • • {for intramedullary devices}
2017/922	•••• {Devices for impaction, impact element}
2017/924	••••• {Impact element driving means}
2017/925	••••• {a spring}
2017/927	• • • • • {Returning means}
2017/928	•••••• {a spring}
10/00	
18/00	Surgical instruments, devices or methods for transferring non-mechanical forms of energy to or
	from the body (eye surgery <u>A61F 9/007;</u> ear surgery
2018/00005	from the body (eye surgery <u>A61F 9/007;</u> ear surgery <u>A61F 11/00</u>)
2018/00005	 from the body (eye surgery <u>A61F 9/007</u>; ear surgery <u>A61F 11/00</u>) (Cooling or heating of the probe or tissue)
	 from the body (eye surgery <u>A61F 9/007</u>; ear surgery <u>A61F 11/00</u>) {Cooling or heating of the probe or tissue immediately surrounding the probe}
2018/00011	 from the body (eye surgery <u>A61F 9/007</u>; ear surgery <u>A61F 11/00</u>) {Cooling or heating of the probe or tissue immediately surrounding the probe} . {with fluids}
2018/00011 2018/00017	 from the body (eye surgery <u>A61F 9/007</u>; ear surgery <u>A61F 11/00</u>) (Cooling or heating of the probe or tissue immediately surrounding the probe) . {with fluids} {with gas}
2018/00011	 from the body (eye surgery <u>A61F 9/007</u>; ear surgery <u>A61F 11/00</u>) {Cooling or heating of the probe or tissue immediately surrounding the probe} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the
2018/00011 2018/00017 2018/00023	 from the body (eye surgery <u>A61F 9/007</u>; ear surgery <u>A61F 11/00</u>) (Cooling or heating of the probe or tissue immediately surrounding the probe) (with fluids) {with gas} {closed, i.e. without wound contact by the fluid}
2018/00011 2018/00017 2018/00023 2018/00029	 from the body (eye surgery <u>A61F 9/007</u>; ear surgery <u>A61F 11/00</u>) {Cooling or heating of the probe or tissue immediately surrounding the probe} . {with fluids} . {with fluids} . {closed, i.e. without wound contact by the fluid} {open}
2018/00011 2018/00017 2018/00023 2018/00029 2018/00035	<pre>from the body (eye surgery <u>A61F 9/007</u>; ear surgery <u>A61F 11/00</u>) . {Cooling or heating of the probe or tissue immediately surrounding the probe} {with fluids} {with gas} {closed, i.e. without wound contact by the fluid} {open} {with return means}</pre>
2018/00011 2018/00017 2018/00023 2018/00029 2018/00035 2018/00041	<pre>from the body (eye surgery <u>A61F 9/007</u>; ear surgery <u>A61F 11/00</u>) </pre> (Cooling or heating of the probe or tissue immediately surrounding the probe) . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} . {open} {with return means} . {Heating, e.g. defrosting}
2018/00011 2018/00017 2018/00023 2018/00029 2018/00035 2018/00041 2018/00047	<pre>from the body (eye surgery <u>A61F 9/007</u>; ear surgery <u>A61F 11/00</u>) </pre> (Cooling or heating of the probe or tissue immediately surrounding the probe) . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} {open} {with return means} . {Heating, e.g. defrosting} . {using Peltier effect}
2018/00011 2018/00017 2018/00023 2018/00029 2018/00035 2018/00041 2018/00047 2018/00053	<pre>from the body (eye surgery <u>A61F 9/007</u>; ear surgery <u>A61F 11/00</u>) • {Cooling or heating of the probe or tissue immediately surrounding the probe} • . {with fluids} • {with gas} • {closed, i.e. without wound contact by the fluid} • {open} • {with return means} • {Heating, e.g. defrosting} • . {using Peltier effect} • {Mechanical features of the instrument of device}</pre>
2018/00011 2018/00017 2018/00023 2018/00029 2018/00035 2018/00041 2018/00047 2018/00053 2018/00059	<pre>from the body (eye surgery <u>A61F 9/007;</u> ear surgery <u>A61F 11/00</u>) • {Cooling or heating of the probe or tissue immediately surrounding the probe} • . {with fluids} • {with gas} • {closed, i.e. without wound contact by the fluid} • {open} • {with return means} • . {Heating, e.g. defrosting} • . {using Peltier effect} • {Mechanical features of the instrument of device} • . {Material properties}</pre>
2018/00011 2018/00017 2018/00023 2018/00029 2018/00035 2018/00041 2018/00053 2018/00059 2018/00059	<pre>from the body (eye surgery <u>A61F 9/007;</u> ear surgery <u>A61F 11/00</u>) • {Cooling or heating of the probe or tissue immediately surrounding the probe} • . {with fluids} • {with gas} • {closed, i.e. without wound contact by the fluid} • {open} • {with return means} • . {Heating, e.g. defrosting} • . {using Peltier effect} • {Mechanical features of the instrument of device} • . {porous}</pre>
2018/00011 2018/00017 2018/00023 2018/00029 2018/00035 2018/00041 2018/00053 2018/00059 2018/00055 2018/00071	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) {Cooling or heating of the probe or tissue immediately surrounding the probe} . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} . {open} . {open} . {with return means} . {Heating, e.g. defrosting} . {using Peltier effect} {Mechanical features of the instrument of device} . {Material properties} . {porous} . {Electrical conductivity}</pre>
2018/00011 2018/00017 2018/00023 2018/00029 2018/00035 2018/00041 2018/00053 2018/00059 2018/00059 2018/00071 2018/00077	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) {Cooling or heating of the probe or tissue immediately surrounding the probe} . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} . {open} {open} {with return means} . {Heating, e.g. defrosting} . {using Peltier effect} {Mechanical features of the instrument of device} . {Material properties} {porous} {Electrical conductivity} {high, i.e. electrically conducting}</pre>
2018/00011 2018/00017 2018/00023 2018/00029 2018/00035 2018/00041 2018/00047 2018/00053 2018/00059 2018/00071 2018/00071 2018/00077 2018/00083	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) {Cooling or heating of the probe or tissue immediately surrounding the probe} . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} . {open} . {open} . {with return means} . {Heating, e.g. defrosting} . {using Peltier effect} {Mechanical features of the instrument of device} . {Material properties} . {lectrical conductivity} . {high, i.e. electrically conducting} . {low, i.e. electrically insulating}</pre>
2018/00011 2018/00017 2018/00023 2018/00029 2018/00035 2018/00041 2018/00047 2018/00053 2018/00059 2018/00055 2018/00071 2018/00077 2018/00083 2018/00089	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) {Cooling or heating of the probe or tissue immediately surrounding the probe} { with fluids} { with fluids} { with gas} { closed, i.e. without wound contact by the fluid} { closed, i.e. without wound contact by the fluid} { determine of the termine of the termine of termine { with return means} { { with gath return means} { { with return means}</pre>
2018/00011 2018/00023 2018/00029 2018/00035 2018/00041 2018/00047 2018/00053 2018/00059 2018/00059 2018/00071 2018/00083 2018/00089 2018/00095	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) • {Cooling or heating of the probe or tissue immediately surrounding the probe} • . {with fluids} • . {with fluids} • . {with gas} • . {closed, i.e. without wound contact by the fluid} • . {open} • . {open} • . {with return means} • . {Waterial properties} • . {Derous} • . {lectrical conductivity} • {high, i.e. electrically insulating} • {Thermal conductivity} • {high, i.e. heat conducting}</pre>
2018/00011 2018/00023 2018/00029 2018/00035 2018/00041 2018/00053 2018/00059 2018/00059 2018/00071 2018/00071 2018/00083 2018/00089 2018/00095 2018/00101	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) </pre> (Cooling or heating of the probe or tissue immediately surrounding the probe) . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} . {open} . {open} {with return means} . {Heating, e.g. defrosting} . {using Peltier effect} . {Material properties} . {porous} . {lectrical conductivity} . {low, i.e. electrically conducting} . {low, i.e. heat conducting} . {low, i.e. thermally insulating}
2018/00011 2018/00023 2018/00023 2018/00035 2018/00041 2018/00053 2018/00059 2018/00059 2018/00071 2018/00077 2018/00083 2018/00085 2018/00095 2018/00101 2018/00107	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) {Cooling or heating of the probe or tissue immediately surrounding the probe} . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} . {open} . {open} . {with return means} . {Heating, e.g. defrosting} . {using Peltier effect} {Material properties} . {porous} . {Electrical conductivity} . {low, i.e. electrically insulating} . {low, i.e. thermally insulating} . {low, i.e. thermally insulating} . {low, i.e. energy applicator}</pre>
2018/00011 2018/00023 2018/00023 2018/00035 2018/00041 2018/00053 2018/00059 2018/00059 2018/00071 2018/00071 2018/00083 2018/00095 2018/00101 2018/00107 2018/00113	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) {Cooling or heating of the probe or tissue immediately surrounding the probe} . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} . {open} . {open} . {with return means} . {Heating, e.g. defrosting} . {using Peltier effect} {Material properties} . {porous} . {Blectrical conductivity} . {lingh, i.e. electrically conducting} . {low, i.e. thermally insulating} . {low, i.e. thermally insulating} . {low, i.e. thermally insulating} . {Coatings on the energy applicator} . {with foam} </pre>
2018/00011 2018/00023 2018/00029 2018/00035 2018/00041 2018/00059 2018/00059 2018/00059 2018/00071 2018/00071 2018/00077 2018/00083 2018/00095 2018/00101 2018/00107 2018/00113 2018/00119	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) {Cooling or heating of the probe or tissue immediately surrounding the probe} . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} . {open} . {open} . {with return means} . {Heating, e.g. defrosting} . {using Peltier effect} {Mechanical features of the instrument of device} . {Material properties} . {porous} . {lectrical conductivity} . {ligh, i.e. electrically conducting} . {low, i.e. thermally insulating} . {low, i.e. thermally insulating} . {Coatings on the energy applicator} . {with feam} . {with metal oxide nitride} </pre>
2018/00011 2018/00023 2018/00029 2018/00035 2018/00041 2018/00059 2018/00059 2018/00059 2018/00055 2018/00071 2018/00077 2018/00083 2018/00083 2018/00095 2018/0019 2018/00113 2018/00119 2018/00125	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) </pre> (Cooling or heating of the probe or tissue immediately surrounding the probe) . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} . {open} . {open} {with return means} . {means} . {with return means} . {with nanostructure} . {with nanostructure}
2018/00011 2018/00023 2018/00029 2018/00035 2018/00041 2018/00053 2018/00059 2018/00065 2018/00065 2018/00071 2018/00077 2018/00083 2018/00089 2018/00095 2018/0019 2018/00113 2018/00125 2018/0013	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) </pre> (Cooling or heating of the probe or tissue immediately surrounding the probe) . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} . {other set of the
2018/00011 2018/00023 2018/00029 2018/00035 2018/00047 2018/00053 2018/00059 2018/00059 2018/00059 2018/00071 2018/00089 2018/00089 2018/00089 2018/00095 2018/0019 2018/00113 2018/00125 2018/0013 2018/00136	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) </pre> (Cooling or heating of the probe or tissue immediately surrounding the probe) . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} . {other set of the
2018/00011 2018/00023 2018/00023 2018/00029 2018/00035 2018/00047 2018/00053 2018/00059 2018/00059 2018/00071 2018/00077 2018/00089 2018/00089 2018/00089 2018/00095 2018/00101 2018/00107 2018/00113 2018/00125 2018/0013 2018/00136 2018/00142	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) </pre> (Cooling or heating of the probe or tissue immediately surrounding the probe) . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} . {other state of the intervention of
2018/00011 2018/00023 2018/00029 2018/00035 2018/00047 2018/00053 2018/00059 2018/00059 2018/00059 2018/00071 2018/00089 2018/00089 2018/00089 2018/00095 2018/0019 2018/00113 2018/00125 2018/0013 2018/00136	<pre>from the body (eye surgery A61F 9/007; ear surgery A61F 11/00) </pre> (Cooling or heating of the probe or tissue immediately surrounding the probe) . {with fluids} . {with fluids} . {with gas} . {closed, i.e. without wound contact by the fluid} . {other set of the

2018/0016	• {Energy applicators arranged in a two- or three
2010/00166	dimensional array}
2018/00166	
2018/00172	• • {Connectors and adapters therefor}
2018/00178	{Electrical connectors}
2018/00184	
2018/0019	• • • {vibrating}
2018/00196	
2018/00202	
2018/00208	
2018/00214	
	elements carried thereon}
2018/0022	• • • {Balloons}
2018/00226	• • • {extending from a surface, i.e. Blisters}
2018/00232	•••• {having an irregular shape}
2018/00238	• • • • {porous}
2018/00244	{adapted to separate target tissue from other
	tissue}
2018/0025	• • • {Multiple balloons}
2018/00255	• • • • {arranged one inside another}
2018/00261	•••• {arranged in a line}
2018/00267	• • {having a basket shaped structure}
2018/00273	• • {Anchoring means for temporary attachment of a
	device to tissue}
2018/00279	• • • {deployable}
2018/00285	• • • • {Balloons}
2018/00291	• • • {using suction}
2018/00297	• • {Means for providing haptic feedback}
2018/00303	• • {active, e.g. with a motor creating vibrations}
2018/00309	• • {passive, e.g. palpable click when activating a
	button}
2018/00315	• {for treatment of particular body parts}
2018/00321	• • {Head or parts thereof}
2018/00327	• • {Ear, nose or throat}
2018/00333	• • {Breast}
2018/00339	• {Spine, e.g. intervertebral disc}
2018/00345	• {Vascular system}
2018/00351	••• {Heart}
2018/00357	• • • {Endocardium}
2018/00363	• • • • {Epicardium}
2018/00369	
2018/00375	
	artery}
2018/0038	• • • {Foramen ovale}
2018/00386	• • • {Coronary vessels}
2018/00392	
2018/00398	· · · · · · · · · · · · · · · · · · ·
2018/00404	
	the heart}
2018/0041	• • • {Removal of thrombosis}
2018/00416	
2018/00422	
2018/00428	
2018/00434	
2018/00434	· · · ·
2018/00446	
2018/00440	
2018/00452	
2010/00430	vascular disorders or port wine stains}
2018/00464	
2010/00404	lipolysis}
	in pory sus j

2018/0047 • • • {Upper parts of the skin, e.g. skin peeling or treatment of wrinkles}

2018/00494 . . . {Stomach, intestines or bowel}

2018/00476 . . . {Hair follicles} 2018/00482 . . {Digestive system} 2018/00488 . . . {Esophagus}

2018/005 . . . {Rectum}

43

2018/00815	• • • { measured by a thermistor }
2018/00821	• • • {measured by a thermocouple}
2018/00827	• • • {Current}
2018/00833	•••• {Differential current}
2018/00839	• • {Bioelectrical parameters, e.g. ECG, EEG}
2018/00845	• • • {Frequency}
2018/00851	• • • {fundamental}
2018/00857	
2018/00863	
2018/00869	
2018/00875	
2018/0088	• • {Vibration}
2018/00886	
2018/00892	
2018/00898	
2010/00090	abnormal condition}
2018/00904	Automatic detection of target tissue}
2018/0091	 {Handpieces of the surgical instrument or device}
2018/00916	 (intallepices of the surgical instrainent of device) (with means for switching or controlling the main
2010/00/10	function of the instrument or device}
2018/00922	
2010/00/22	energy directly within the hand-piece}
2018/00928	• • {by sending a signal to an external energy
2010/00/20	source}
2018/00934	•••• {the signal being non electric, e.g.
	pneumatic, hydraulic, optical}
2018/0094	• • {Types of switches or controllers}
2018/00946	
2018/00952	
2018/00958	
	modes of the main function}
2018/00964	• {Features of probes}
2018/0097	• {Cleaning probe surfaces}
2018/00976	• • {with scraping means}
2018/00982	• {combined with or comprising means for visual
	or photographic inspections inside the body, e.g.
	endoscopes}
2018/00988	• {Means for storing information, e.g. calibration
	constants, or for preventing excessive use, e.g.
	usage, service life counter}
2018/00994	C D
	mechanical energy or combining one or more non-
	mechanical energies with ultrasound}
18/02	• by cooling, e.g. cryogenic techniques (devices for
	cooling specific reflex points of the body within
18/0206	 cell-life limits <u>A61H 39/06</u>) {ultrasonic, e.g. for destroying tissue or
18/0200	enhancing freezing}
2018/0212	 • {using an instrument inserted into a body lumen,
2010/0212	e.g. catheter}
18/0218	• {with open-end cryogenic probe, e.g. for spraying
10/0210	fluid directly on tissue or via a tissue-contacting
	porous tip}
2018/0225	• {using an instrument for clamping tissue, e.g.
	forceps}
2018/0231	• {Characteristics of handpieces or probes}
2018/0237	• • { with a thermoelectric element in the probe for
	cooling purposes}
2018/0243	•••• {cooling of the hot side of the junction, e.g.
	heat sink}
2018/025	•••• {by circulating liquid}
2018/0256	•••• {by circulating gas, e.g. air}
2018/0262	• • { using a circulating cryogenic fluid }
2010/0202	

2018/0281	• • • • {using a tortuous path, e.g. formed by fins
2010/0207	or ribs}
2018/0287	••••• {the fluid flowing through a long thin
2010/0202	tube with spiral shape}
2018/0293	• • {using an instrument interstitially inserted into the
10/04	body, e.g. needle}
18/04	• by heating (by applying electromagnetic radiation $A \in [1, 1]$
	<u>A61B 18/18</u> ; hyperthermia using electric or
18/042	 magnetic fields, radiation or ultrasound <u>A61N</u>) {using additional gas becoming plasma}
	 {using additional gas becoming plasma} {the surgical action being effected by a
2018/044	circulating hot fluid}
2019/046	
2018/046	{in liquid form}
2018/048	••• {in gaseous form}
18/06	• caused by chemical reaction {, e.g. moxaburners}
2018/062	• • {one of the reactants being oxygen}
2018/064	{Moxaburners}
2018/066	• • • {one of the reactants being oxygen not from the
2010/070	air}
2018/068	• • {none of the reactants being oxygen}
18/08	• by means of electrically-heated probes
18/082	• • • {Probes or electrodes therefor}
18/085	• • • • {Forceps, scissors}
2018/087	•••• {using semiconductors as heating element}
18/10	• • Power sources therefor
18/12	• by passing a current through the tissue to be
10/1000	heated, e.g. high-frequency current
18/1206	{Generators therefor}
2018/1213	• • • {creating an arc}
2018/122	• • • • {ionizing, with corona}
2018/1226	• • • • {powered by a battery}
18/1233	• • • { with circuits for assuring patient safety }
2018/124	• • • {switching the output to different electrodes,
2010/12/16	e.g. sequentially}
2018/1246	• • • {characterised by the output polarity}
2018/1253	{monopolar}
2018/126	{bipolar}
2018/1266	• • • { with DC current output }
2018/1273	{including multiple generators in one
2010/120	device}
2018/128	{generating two or more frequencies}
2018/1286	• • • • {having a specific transformer}
2018/1293	• • • {having means to prevent interference}
18/14	Probes or electrodes therefor
18/1402	{Probes for open surgery}
2018/1405	• • • • {Electrodes having a specific shape}
2018/1407	••••• {Loop}
2018/141	{Snare}
2018/1412	•••• {Blade}
2018/1415	••••• {multiple blades}
2018/1417	••••• {Ball}
2018/142	• • • • {at least partly surrounding the target, e.g.
	concave, curved or in the form of a cave}
2018/1422	••••• {Hook}
2018/1425	••••• {Needle }
2018/1427	• • • • • {with a beveled end}
2018/143	• • • • • {multiple needles}
2018/1432	••••• {curved}
2018/1435	•••• {Spiral}

2018/0268. . . {with restriction of flow}2018/0275. . . . {using porous elements}

2018/1437	••••• {whereby the windings of the spiral touch each other such as to create a continuous surface}
2018/144	•••• {Wire}
18/1442	• • • {Probes having pivoting end effectors, e.g. forceps}
18/1445	•••• {at the distal end of a shaft, e.g. forceps or scissors at the end of a rigid rod}
18/1447	• • • • • {wherein sliding surfaces cause opening/closing of the end effectors}
2018/145	• • • • {wherein the effectors remain parallel during closing and opening}
2018/1452	• • • • {including means for cutting (A61B 2018/146 takes precedence)}
2018/1455	••••• {having a moving blade for cutting tissue grasped by the jaws}
2018/1457	••••• {having opposing blades cutting tissue grasped by the jaws, i.e. combined scissors and pliers}
2018/146	• • • • {Scissors}
2018/1462	••••• {Tweezers}
2018/1465	••••••••••••••••••••••••••••••••••••••
2018/1467	• • • {using more than two electrodes on a single probe}
2018/147	• • • {Electrodes transferring energy by capacitive
	coupling, i.e. with a dielectricum between electrode and target tissue}
2018/1472	• • • { for use with liquid electrolyte, e.g. virtual
	electrodes }
2018/1475	• • • {Electrodes retractable in or deployable from a housing}
18/1477	• • • {Needle-like probes}
18/148	••••• {having a short, rigid shaft for accessing
10/140	the inner body transcutaneously, e.g. for
	neurosurgery or arthroscopy}
18/1482	•••• {having a long rigid shaft for accessing the
	inner body transcutaneously in minimal invasive surgery, e.g. laparoscopy}
18/1485	• • • { having a short rigid shaft for accessing the
10/1405	inner body through natural openings}
18/1487	• • • {Trocar-like, i.e. devices producing an
	enlarged transcutaneous opening}
18/149	•••• {bow shaped or with rotatable body at cantilever end, e.g. for resectoscopes, or
18/1492	coagulating rollers} {having a flexible, catheter-like structure,
10,11,2	e.g. for heart ablation (A61B 18/1477 takes
0010/11/07	precedence)}
2018/1495	{Electrodes being detachable from a support
0010/1407	structure}
2018/1497	• • • {Electrodes covering only part of the probe circumference}
18/16	Indifferent or passive electrodes for
	grounding
2018/162	• • • • {located on the probe body}
2018/165	• • • • • {Multiple indifferent electrodes}
2018/167	• • • • {Passive electrodes capacitively coupled to
	the skin}
18/18	• by applying electromagnetic radiation, e.g.
	microwaves (radiation therapy A61N 5/00)
2018/1807	• {using light other than laser radiation}
18/1815	• • {using microwaves}
2018/1823	{Generators therefor}
2018/183	• • • {characterised by the type of antenna}

2018/1838	•	•	•	• {Dipole antennas}
2018/1846	•	•	•	• {Helical antennas}
2018/1853	•	•	•	• {Monopole antennas}
2018/1861	•	•	•	{with an instrument inserted into a body lumen or cavity, e.g. a catheter}
2018/1869	•	•	•	{with an instrument interstitially inserted into the body, e.g. needles}
2018/1876				{with multiple frequencies}
2018/1884				{with non-uniform emissions}
2018/1892				{Details of electrical isolations of the antenna}
18/20			u	sing laser
2018/2005	•	•	•	{with beam delivery through an interstitially insertable device, e.g. needle}
18/201	•	•	•	{with beam delivery through a hollow tube, e.g. forming an articulated arm (through a flexible conduit A61B 18/22); Hand-pieces therefor}
2018/2015				{Miscellaneous features}
2018/202				• {Laser enclosed in a hand-piece}
2018/2023	•	•	•	• {Self-contained devices, i.e. with power supply in the hand-piece}
2018/2025	•	•	•	• {with a pilot laser}
18/203	•	•	•	{applying laser energy to the outside of the body}
2018/2035	•	•	•	{Beam shaping or redirecting; Optical components therefor (A61B 2018/2255 takes
				precedence)}
2018/20351	•	•	•	• {Scanning mechanisms}
2018/20353	•	•	•	• • {Scanning in three dimensions [3D]}
2018/20355	•	•	•	• • {Special scanning path or conditions, e.g.
				spiral, raster or providing spot overlap}
2018/20357	•	•	•	• • {by movable optical fibre end}
2018/20359	•	•	•	• • {by movable mirrors, e.g. galvanometric}
2018/20361	•	•	•	• {with redirecting based on sensed condition, e.g. tissue analysis or tissue movement}
2018/204	•	•	•	• {Attenuators}
2018/2045	•	•	•	• {Choppers}
2018/205	•	•	•	• • {with electronic means, e.g. acousto-optic}
2018/2055	•	•	•	• • {with mechanical means}
2018/20553	•	•	•	• {with special lens or reflector arrangement
				(A61B 2018/2255, A61B 2018/2261, A61B 2018/2266, A61B 2018/2272, A61B 2018/2277, A61B 2018/2283 take precedence)}
2018/20554	•	•	•	• {Arrangements for particular intensity distribution, e.g. tophat}
2018/205545	•	•	•	• {Arrangements for particular spot shape, e.g. square or annular}
2018/205547				• {Controller with specific architecture or
	-	-		programmatic algorithm for directing scan path, spot size or shape, or spot intensity, fluence or irradiance}
2018/206	•	•	•	{the laser light passing along a liquid-filled conduit}
2018/2065	•	•	•	{Multiwave; Wavelength mixing, e.g.
				using four or more wavelengths (pilot laser A61B 2018/2025)}
2018/207	•	•	•	• {mixing two wavelengths}
2018/2075	•	•	•	• {mixing three wavelengths}
2018/208	•	•	•	{with multiple treatment beams not sharing a common path e.g. non-axial or parallel}
18/22				common path, e.g. non-axial or parallel} the beam being directed along or through
10/22	•	•	•	a flexible conduit, e.g. an optical fibre; {Couplings or} hand-pieces therefor

2018/2205	• • • • {Characteristics of fibres}
2018/2211	• • • • {Plurality of fibres}
2018/2216	• • • • • {Braided or helically wound}
2018/2222	• • • • {Fibre material or composition}
2018/2227	• • • • • {Hollow fibres}
2018/2233	••••• {Solid transparent for far infrared light}
2018/2238	• • • • {with means for selectively laterally
	deflecting the tip of the fibre}
2018/2244	• • • • {Features of optical fibre cables, e.g.
	claddings}
2018/2247	• • • • {Fibre breakage detection}
2018/225	• • • • {Features of hand-pieces (A61B 2018/2255
	takes precedence)
2018/2253	• • • • {characterised by additional functions, e.g.
	surface cooling or detecting pathological
	tissue}
2018/2255	• • • • {Optical elements at the distal end of probe
	tips}
2018/2261	•••• {with scattering, diffusion or dispersion of
	light}
2018/2266	• • • • { with a lens, e.g. ball tipped }
2018/2272	•••• {with reflective or refractive surfaces for
	deflecting the beam (A61B 2018/2261,
	A61B 2018/2266 take precedence)}
2018/2277	• • • • • { with refractive surfaces }
2018/2283	••••• {with pivotable mirrors}
2018/2285	•••• {with removable, replacable, or
	exchangable tips}
2018/22853	••••• {Means to identify tip configuration}
2018/2288	•••• {the optical fibre cable having a curved
	distal end}
2018/2294	•••• {with a diffraction grating}
18/24	•••• with a catheter (<u>A61B 18/26</u> , <u>A61B 18/28</u>
	take precedence)
18/245	•••• {for removing obstructions in blood
	vessels or calculi}
18/26	•••• for producing a shock wave, e.g. laser
	lithotripsy
2018/263	• • • • {the conversion of laser energy into
	mechanical shockwaves taking place in a
	liquid}
2018/266	• • • • {the conversion of laser energy into
	mechanical shockwaves taking place in a
	part of the probe}
18/28	• • • for heating a thermal probe or absorber
34/00	Computer aided surgery: Manipulators or relate
34/00	Computer-aided surgery; Manipulators or robots specially adapted for use in surgery
34/10	• Computer-aided planning, simulation or modelling
54/10	of surgical operations
2034/101	Gomputer-aided simulation of surgical
2034/101	operations}
2034/102	• • • {Modelling of surgical devices, implants or
2054/102	
2034/104	prosthesis}
2034/104	prosthesis}•••• {Modelling the effect of the tool, e.g. the
2034/104	prosthesis}• • {Modelling the effect of the tool, e.g. the effect of an implanted prosthesis or for
	 prosthesis} ••• {Modelling the effect of the tool, e.g. the effect of an implanted prosthesis or for predicting the effect of ablation or burring}
2034/104 2034/105	prosthesis}• • {Modelling the effect of the tool, e.g. the effect of an implanted prosthesis or for
	 prosthesis} . • {Modelling the effect of the tool, e.g. the effect of an implanted prosthesis or for predicting the effect of ablation or burring} . • {Modelling of the patient, e.g. for ligaments or bones}
2034/105	 prosthesis} • {Modelling the effect of the tool, e.g. the effect of an implanted prosthesis or for predicting the effect of ablation or burring} • {Modelling of the patient, e.g. for ligaments or
2034/105	 prosthesis} . • {Modelling the effect of the tool, e.g. the effect of an implanted prosthesis or for predicting the effect of ablation or burring} . • {Modelling of the patient, e.g. for ligaments or bones} . • {Visualisation of planned trajectories or target regions}
2034/105 2034/107	 prosthesis} . • {Modelling the effect of the tool, e.g. the effect of an implanted prosthesis or for predicting the effect of ablation or burring} . • {Modelling of the patient, e.g. for ligaments or bones} . {Visualisation of planned trajectories or target

34/20	 Surgical navigation systems; Devices for tracking or guiding surgical instruments, e.g. for frameless stereotaxis
2024/2046	
2034/2046	• • {Tracking techniques}
2034/2048	• • {using an accelerometer or inertia sensor}
2034/2051	• • • {Electromagnetic tracking systems}
2034/2053	•••• {Tracking an applied voltage gradient}
2034/2055	• • • {Optical tracking systems}
2034/2057	• • • {Details of tracking cameras}
2034/2059	• • • {Mechanical position encoders}
2034/2061	••• {using shape-sensors, e.g. fiber shape sensors with Bragg gratings}
2034/2063	• • • {Acoustic tracking systems, e.g. using ultrasound}
2034/2065	• • • {Tracking using image or pattern recognition}
2034/2068	• • {using pointers, e.g. pointers having reference
	marks for determining coordinates of body points}
2034/207	• • • {Divots for calibration}
2034/2072	• • {Reference field transducer attached to an
	instrument or patient}
2034/2074	• • {Interface software}
34/25	• {User interfaces for surgical systems}
2034/252	• • {indicating steps of a surgical procedure}
2034/254	• • {being adapted depending on the stage of the
	surgical procedure}
2034/256	• • {having a database of accessory information, e.g. including context sensitive help or scientific
	articles }
2034/258	• • {providing specific settings for specific users}
34/30	Surgical robots
2034/301	• {for introducing or steering flexible instruments inserted into the body, e.g. catheters or endoscopes}
2034/302	• {specifically adapted for manipulations within
2034/302	body cavities, e.g. within abdominal or thoracic cavities}
2034/303	• • {specifically adapted for manipulations within body lumens, e.g. within lumen of gut, spine, or
	blood vessels}
2034/304	• • {including a freely orientable platform, e.g. so called 'Stewart platforms'}
2034/305	• {Details of wrist mechanisms at distal ends of robotic arms}
2034/306	• • {Wrists with multiple vertebrae}
34/32	 operating autonomously
34/35	• for telesurgery
34/37	 Master-slave robots (<u>A61B 34/35</u> takes
ונודנ	precedence)
34/70	• {Manipulators specially adapted for use in surgery}
34/71	 (Manipulators specially adapted for use in surgery) (Manipulators operated by drive cable)
	mechanisms}
2034/715	••• {Cable tensioning mechanisms for removing slack}
34/72	• • {Micromanipulators}
34/73	• • {Manipulators for magnetic surgery}
2034/731	• • • {Arrangement of the coils or magnets}
2034/732	• • • • {arranged around the patient, e.g. in a
	gantry }
2034/733	• • • {arranged only on one side of the patient,
	e.g. under a table}
34/74	• • {Manipulators with manual electric input means}
2034/741	• • • {Glove like input devices, e.g. "data gloves"}

2024/542	
2034/742	{Joysticks}
2034/743	• • • {Keyboards}
2034/744	• • • {Mouse}
34/75	• • {Manipulators having means for prevention or
	compensation of hand tremors}
34/76	• {Manipulators having means for providing feel, e.g. force or tactile feedback}
34/77	• • {Manipulators with motion or force scaling}
42/00	
42/00	Surgical gloves; Finger-stalls specially adapted for
	surgery; Devices for handling or treatment thereof
42/10	• Surgical gloves
42/20	 Finger-stalls specially adapted for surgery
42/30	• Devices for detecting perforations, leaks or tears
42/40	Packages or dispensers
42/50	• Devices for putting-on or removing
42/60	. Devices for cleaning, washing, drying or powdering
46/00	Survival dramas
46/00 46/10	Surgical drapes
40/10	 specially adapted for instruments {, e.g. microscopes }
46/13	• the drapes entering the patient's body
46/17	 closed at the distal end
46/20	specially adapted for patients
2046/201	• • {for extremities, e.g. having collection pouch}
2046/205	• • {Adhesive drapes}
46/23	• • with means to retain or hold surgical implements
2046/234	• • • {with means for retaining a catheter}
2046/236	• • • { with means for collecting drain fluid, e.g.
	drain tubes}
46/27	• • tubular, e.g. for arms or legs (A61B 46/13 takes
1.5/20	precedence)
46/30	• {for surgery through the lower body openings, e.g.
	• {for surgery through the lower body openings, e.g. urology, gynaecology}
46/30 46/40	• {for surgery through the lower body openings, e.g.
46/40	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof}
	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially
46/40	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or
46/40	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially
46/40 50/00	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments <u>A61B 46/10</u>)
46/40 50/00 2050/001	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments <u>A61B 46/10</u>) {Temperature-modifying means}
46/40 50/00 2050/001 2050/0014	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means}
46/40 50/00 2050/001	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments <u>A61B 46/10</u>) {Temperature-modifying means} {Cooling means} {Heating means}
46/40 50/00 2050/001 2050/0014	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Heating means} {Chemical heating}
46/40 50/00 2050/001 2050/0014 2050/0016	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments <u>A61B 46/10</u>) {Temperature-modifying means} {Cooling means} {Heating means}
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Heating means} {Chemical heating}
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017 2050/0018	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments <u>A61B 46/10</u>) {Temperature-modifying means} {Cooling means} {Heating means} {Chemical heating} {Electric heating} {having adhesive means, e.g. an adhesive strip}
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017 2050/0018 2050/002 2050/005	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments <u>A61B 46/10</u>) {Temperature-modifying means} {Cooling means} {Heating means} {Electric heating} {having adhesive means, e.g. an adhesive strip} {with a lid or cover}
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017 2050/0018 2050/002 2050/005 2050/0051	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Heating means} {Electric heating} {having adhesive means, e.g. an adhesive strip} {with a lid or cover} {closable by rotation}
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017 2050/0018 2050/002 2050/005	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Coeling means} {Chemical heating} {Electric heating} {having adhesive means, e.g. an adhesive strip} {with a lid or cover} {closable by rotation} {of two concentric cylinders with
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017 2050/0018 2050/002 2050/005 2050/0051	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Cooling means} {Chemical heating} {Electric heating} {having adhesive means, e.g. an adhesive strip} {with a lid or cover} {closable by rotation} { of two concentric cylinders with corresponding lateral openings, about their
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0018 2050/002 2050/005 2050/0051 2050/0052	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Cooling means} {Heating means} {Electric heating} {having adhesive means, e.g. an adhesive strip} {with a lid or cover} {closable by rotation} { of two concentric cylinders with corresponding lateral openings, about their common longitudinal axis}
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017 2050/0018 2050/002 2050/005 2050/0051	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Cooling means} {Chemical heating} {Electric heating} {having adhesive means, e.g. an adhesive strip} {with a lid or cover} {closable by rotation} { of two concentric cylinders with corresponding lateral openings, about their common longitudinal axis} { of two concentric parallelepipeds about a
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0018 2050/005 2050/0051 2050/0052 2050/0053	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Cooling means} {Heating means} {Electric heating} {having adhesive means, e.g. an adhesive strip} {with a lid or cover} {closable by rotation} { of two concentric cylinders with corresponding lateral openings, about their common longitudinal axis} { of two concentric parallelepipeds about a common longitudinal axis}
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0018 2050/002 2050/005 2050/0051 2050/0052	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Cooling means} {Chemical heating} {Electric heating} {adapted by rotation} {of two concentric cylinders with corresponding lateral openings, about their common longitudinal axis} {of two concentric parallelepipeds about a common longitudinal axis} {about the central longitudinal axis
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017 2050/0018 2050/005 2050/0051 2050/0052 2050/0053 2050/0053	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Cooling means} {Chemical heating} {Electric heating} {adapted by rotation} {of two concentric cylinders with corresponding lateral openings, about their common longitudinal axis} {of two concentric parallelepipeds about a common longitudinal axis} {about the central longitudinal axis perpendicular to the lid plane}
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0018 2050/005 2050/0051 2050/0052 2050/0053	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Cooling means} {Heating means} {Electric heating} {having adhesive means, e.g. an adhesive strip} {with a lid or cover} {closable by rotation} { of two concentric cylinders with corresponding lateral openings, about their common longitudinal axis} { about the central longitudinal axis perpendicular to the lid plane} { about a lateral axis perpendicular to the lid
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017 2050/0018 2050/005 2050/0051 2050/0053 2050/0054 2050/0055	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Cooling means} {Chemical heating} {Electric heating} {having adhesive means, e.g. an adhesive strip} {with a lid or cover} {closable by rotation} { of two concentric cylinders with corresponding lateral openings, about their common longitudinal axis} { dot two concentric parallelepipeds about a common longitudinal axis} { about the central longitudinal axis perpendicular to the lid plane}
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017 2050/005 2050/005 2050/0051 2050/0053 2050/0054 2050/0055 2050/0055	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Cooling means} {Chemical heating} {Electric heating} {Intervent of the structure of the str
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017 2050/005 2050/0051 2050/0051 2050/0053 2050/0054 2050/0055 2050/0055	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Cooling means} {Coemical heating} {Electric heating} {Remical heating} {Cosable by rotation} {of two concentric cylinders with corresponding lateral openings, about their common longitudinal axis} {of two concentric parallelepipeds about a common longitudinal axis} {about the central longitudinal axis perpendicular to the lid plane} {about a lateral axis in the lid plane} {about a transverse axis in the lid plane}
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017 2050/0051 2050/0051 2050/0053 2050/0054 2050/0055 2050/0055 2050/0056 2050/0057 2050/0058	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Cooling means} {Coemical heating} {Heating means} {Electric heating} {Having adhesive means, e.g. an adhesive strip} {with a lid or cover} {closable by rotation} { of two concentric cylinders with corresponding lateral openings, about their common longitudinal axis} { of two concentric parallelepipeds about a common longitudinal axis} { about the central longitudinal axis perpendicular to the lid plane} { about a lateral axis perpendicular to the lid plane} { about a transverse axis in the lid plane} { closable by translation}
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017 2050/0051 2050/0051 2050/0053 2050/0053 2050/0054 2050/0055 2050/0056 2050/0058 2050/0058 2050/0059	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Cooling means} {Coemical heating} {Electric heating} {Retric heating} {Retric heating} {Cosable by rotation} {of two concentric cylinders with corresponding lateral openings, about their common longitudinal axis} {of two concentric parallelepipeds about a common longitudinal axis} {about a lateral axis perpendicular to the lid plane} {about a transverse axis in the lid plane} {closable by translation} {about a transverse axis in the lid plane} {closable by translation} {closable by translation} {about a transverse axis in the lid plane} {closable by translation} {closable by translation} {closable by translation}
46/40 50/00 2050/001 2050/0014 2050/0016 2050/0017 2050/0051 2050/0051 2050/0053 2050/0054 2050/0055 2050/0055 2050/0056 2050/0057 2050/0058	 {for surgery through the lower body openings, e.g. urology, gynaecology} {Drape material, e.g. laminates; Manufacture thereof} Containers, covers, furniture or holders specially adapted for surgical or diagnostic appliances or instruments, e.g. sterile covers (drapes specially adapted for instruments A61B 46/10) {Temperature-modifying means} {Cooling means} {Cooling means} {Coemical heating} {Heating means} {Electric heating} {Having adhesive means, e.g. an adhesive strip} {with a lid or cover} {closable by rotation} { of two concentric cylinders with corresponding lateral openings, about their common longitudinal axis} { of two concentric parallelepipeds about a common longitudinal axis} { about the central longitudinal axis perpendicular to the lid plane} { about a lateral axis perpendicular to the lid plane} { about a transverse axis in the lid plane} { closable by translation}

2030/0001	respect to the casing sidewalls}
2050/0062	(closable by a combination of rotation and
2030/0002	translation}
2050/0063	• • {Bayonet coupling}
2050/0003	 (buyonet coupling) (by screwing)
2050/0001	• {Peelable cover}
2050/0005	 (if chable cover) (with additional sealing means, e.g. O-ring)
2050/0000	 {with additional scaling incars, e.g. 0-fing} {Types of closures or fasteners}
2050/0007	 . {Cooperating dimples}
2050/0008	
2050/0009	$(T - 1)^{-1} = (T - 1)^{-1}$
2050/007	• • • {Draw-strings}
2050/0071	 {Plugs, e.g. rubber plugs}
2050/0072	•••• {Tiugs, e.g. Tubber plugs}
2050/0073	• • {Toggle latches or clamps}
2050/0074	• • • {Swingable wire bails or handles}
2050/0075	 . {baving additional locking means}
2050/0078	 . {having additional rocking means} . {having additional unlocking means}
2050/0078	• • {Magnetic closures}
2050/0075	 Pegs inserted, e.g. forced, into openings}
2050/008	 . {Pins cooperating with slots of a slideable
2030/0081	locking bar}
2050/0082	• • {Rib-and-groove connection}
2050/0082	••• {Snap connection}
2050/0003	 . {Tabs inserted into slots}
2050/0085	 . {Hook and loop}
2050/0005	 . {closed by or under vacuum}
2050/0000	 . {closed in two steps}
2050/0088	{Zip}
2050/0000	 (Zip) {having permanent closure means}
2050/0009	A string additional means for temporarily
2050/009	preventing said permanent closure}
50/10	• Furniture specially adapted for surgical or
00,10	diagnostic appliances or instruments
2050/105	• {Cabinets}
50/13	• Trolleys{, e.g. carts}
50/15	• • Mayo stands; Tables
2050/155	• • {Mayo stands}
50/18	• Cupboards; Drawers therefor
2050/185	• • {Drawers}
50/20	• Holders specially adapted for surgical or diagnostic
	appliances or instruments (drapes with means to
	hold surgical instruments A61B 46/23; for catheters
	<u>A61M 25/02</u>)
2050/21	• • {Magnetic holders}
50/22	Racks
50/24	. Stands (Mayo stands A61B 50/15)
50/26	floor-based
50/28	• • • suspended from the ceiling
50/30	Containers specially adapted for packaging,
	protecting, dispensing, collecting or disposing of
	surgical or diagnostic appliances or instruments
	(for wound clamps <u>A61B 17/10</u> ; for ligaturing clips <u>A61B 17/122</u> ; packages or dispensers for surgical
	A61B 17/122; packages or dispensers for surgical gloves or finger-stalls A61B 42/40)
50/3001	• {for sharps}
2050/3002	 {Including foam blocks for retaining sharps}
2050/3002	 . {Including four blocks for retaining sharps} . {containing desiccant means, e.g. desiccant
2050/5004	
2050/3005	pouches}
2050/3005	pouches}(containing a preservative liquid, e.g. an
	pouches}(containing a preservative liquid, e.g. an antiseptic liquid)
2050/3005 2050/3006	pouches}(containing a preservative liquid, e.g. an

2050/0061 . . . { the height of the lid being adjustable with

2050/3007	• • {Stackable casings}
2050/3008	• • {having multiple compartments}
2050/3009	• • {having means for connecting similar adjacent
	containers}
2050/301	• . {carried on the medical practitioner's clothing or
	back}
2050/3011	• • {having carrying handles}
2050/3012	• • • {Wrist hangers}
2050/3013	• • {having means for automatically ejecting the
	stored article}
2050/3014	• • {waterproof}
2050/3015	• • {transparent}
50/31	Carrying cases or bags, e.g. doctors' bags
2050/311	• • {Cases}
50/312	• • {Doctors' or nurses' bags}
2050/314	 (Dectors of nurses bags) (Flexible bags or pouches)
2050/314	• • {double- or multiple-walled}
2050/310	
2030/318	• • • {Multi-pouches, e.g. strips of side-by-side pouches}
50/22	- · ·
50/33	• Trays
50/34	• Baskets
50/36	• for collecting or disposing of used articles
50/362	• • • {for sharps}
2050/364	• • • • {having additional means for destroying used
	sharps}
50/37	• • • for absorbent articles, e.g. bandages, garments,
2050/255	swabs or towels
2050/375	• • • • {for sponges}
50/39	• • • the containers containing antimicrobial,
	antiviral or disinfectant agents
	Instruments, implements or accessories specially
	adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u> , e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u> ; surgeon's or patient's gowns or dresses <u>A41D 13/12</u> ; devices for carrying-off, for treatment of, or for carrying-over,
	adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u> , e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u> ; surgeon's or patient's gowns or dresses <u>A41D 13/12</u> ; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>)
90/02	adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u> , e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u> ; surgeon's or patient's gowns or dresses <u>A41D 13/12</u> ; devices for carrying-off, for treatment of, or for carrying-over,
90/02 90/03	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary
	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)}
	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for
90/03	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety}
90/03 2090/031	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} . {torque limiting}
90/03 2090/031 2090/032	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} . {torque limiting} . {pressure limiting, e.g. hydrostatic}
90/03 2090/031 2090/032	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} {torque limiting} {pressure limiting, e.g. hydrostatic} {Abutting means, stops, e.g. abutting on tissue or
90/03 2090/031 2090/032 2090/033	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) (Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>) {Automatic limiting or abutting means, e.g. for safety} {torque limiting} {pressure limiting, e.g. hydrostatic} {Abutting means, stops, e.g. abutting on tissue or skin}
90/03 2090/031 2090/032 2090/033 2090/034	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} {torque limiting} {pressure limiting, e.g. hydrostatic} {Abutting means, stops, e.g. abutting on tissue or skin} {abutting on parts of the device itself}
90/03 2090/031 2090/032 2090/033 2090/034 2090/035	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} {torque limiting} {pressure limiting, e.g. hydrostatic} {Abutting means, stops, e.g. abutting on tissue or skin} {abutting on parts of the device itself} {preventing further rotation} {abutting on tissue or skin}
90/03 2090/031 2090/032 2090/033 2090/034 2090/035 2090/036	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} {torque limiting} {pressure limiting, e.g. hydrostatic} {Abutting means, stops, e.g. abutting on tissue or skin} {abutting on parts of the device itself} {abutting on tissue or skin} {abutting on tissue or skin} {with a frangible part, e.g. by reduced diameter}
90/03 2090/031 2090/032 2090/033 2090/034 2090/035 2090/036 2090/037 2090/038	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} {torque limiting} {pressure limiting, e.g. hydrostatic} {Abutting means, stops, e.g. abutting on tissue or skin} {abutting on parts of the device itself} {abutting on tissue or skin} {with a frangible part, e.g. by reduced diameter} {during shipment}
90/03 2090/031 2090/032 2090/033 2090/034 2090/035 2090/036 2090/037 2090/038 90/04	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} {torque limiting, e.g. hydrostatic} {torque limiting, e.g. hydrostatic} {abutting on parts of the device itself} {butting on tissue or skin} {with a frangible part, e.g. by reduced diameter} {during shipment} {Protection of tissue around surgical sites against effects of non-mechanical surgery, e.g. laser surgery (protection of eyes against laser radiation <u>A61F 9/022</u>)}
90/03 2090/031 2090/032 2090/033 2090/034 2090/035 2090/036 2090/037 2090/038	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} {torque limiting} {pressure limiting, e.g. hydrostatic} {Abutting means, stops, e.g. abutting on tissue or skin} {abutting on parts of the device itself} {abutting on tissue or skin} {with a frangible part, e.g. by reduced diameter} {during shipment} {Protection of tissue around surgical sites against effects of non-mechanical surgery, e.g. laser surgery (protection of eyes against laser radiation
90/03 2090/031 2090/032 2090/033 2090/034 2090/035 2090/036 2090/037 2090/038 90/04	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} {torque limiting} {torque limiting, e.g. hydrostatic} {Abutting means, stops, e.g. abutting on tissue or skin} {abutting on parts of the device itself} {torting further rotation} {abutting on tissue or skin} {with a frangible part, e.g. by reduced diameter} {during shipment} {Protection of tissue around surgical sites against effects of non-mechanical surgery, e.g. laser surgery (protection of eyes against laser radiation <u>A61F 9/022</u>) {Specification of type of protection measures} {Compensation}
90/03 2090/031 2090/032 2090/033 2090/034 2090/035 2090/036 2090/037 2090/038 90/04	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} {torque limiting} {torque limiting, e.g. hydrostatic} {Abutting means, stops, e.g. abutting on tissue or skin} {abutting on parts of the device itself} {torting further rotation} {abutting on tissue or skin} {with a frangible part, e.g. by reduced diameter} {during shipment} {Protection of tissue around surgical sites against effects of non-mechanical surgery, e.g. laser surgery (protection of eyes against laser radiation <u>A61F 9/022</u>) {Specification of type of protection measures}
90/03 2090/031 2090/032 2090/033 2090/034 2090/035 2090/035 2090/036 2090/037 2090/038 90/04 2090/0409 2090/0418	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} {torque limiting} {torque limiting, e.g. hydrostatic} {Abutting means, stops, e.g. abutting on tissue or skin} {abutting on parts of the device itself} {torting further rotation} {abutting on tissue or skin} {with a frangible part, e.g. by reduced diameter} {during shipment} {Protection of tissue around surgical sites against effects of non-mechanical surgery, e.g. laser surgery (protection of eyes against laser radiation <u>A61F 9/022</u>) {Specification of type of protection measures} {Compensation}
90/03 2090/031 2090/032 2090/033 2090/034 2090/035 2090/035 2090/037 2090/038 90/04 2090/0409 2090/0418 2090/0427	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} {torque limiting} {pressure limiting, e.g. hydrostatic} {abutting means, stops, e.g. abutting on tissue or skin} {abutting on parts of the device itself} {abutting on tissue or skin} {abutting on tissue or skin} {during shipment} {Protection of tissue around surgical sites against effects of non-mechanical surgery, e.g. laser surgery (protection of eyes against laser radiation <u>A61F 9/022</u>)} {Specification of type of protection measures} {Compensation} {Prevention of contact} {Shielding}
90/03 2090/031 2090/032 2090/033 2090/035 2090/035 2090/036 2090/037 2090/038 90/04 2090/0409 2090/0418 2090/0427 2090/0436	 adapted for surgery or diagnosis and not covered by any of the groups <u>A61B 1/00</u> - <u>A61B 50/00</u>, e.g. for luxation treatment or for protecting wound edges (protective face masks <u>A41D 13/11</u>; surgeon's or patient's gowns or dresses <u>A41D 13/12</u>; devices for carrying-off, for treatment of, or for carrying-over, body liquids <u>A61M 1/00</u>) {Devices for expanding tissue, e.g. skin tissue (implements for holding wounds open, surgical tractors <u>A61B 17/02</u>; implantable mammary prosthesis <u>A61F 2/12</u>; dilators <u>A61M 29/00</u>)} {Automatic limiting or abutting means, e.g. for safety} {torque limiting} {pressure limiting, e.g. hydrostatic} {abutting means, stops, e.g. abutting on tissue or skin} {abutting on parts of the device itself} {preventing further rotation} {abutting on tissue or skin} {with a frangible part, e.g. by reduced diameter} {during shipment} {Protection of tissue around surgical sites against effects of non-mechanical surgery, e.g. laser surgery (protection of eyes against laser radiation <u>A61F 9/022</u>) {Specification of type of protection measures} {Compensation} {Prevention of contact}

2000/04/22	
2090/0463	• • {against cooling or freezing}
2090/0472	• • {against ultrasound energy}
2090/0481	• • {against EM radiation, e.g. microwave}
2090/049	• {against light, e.g. laser}
90/05	• {Splash shields for protection of the surgeon,
	e.g. splash guards connected to the apparatus (A41D 13/11 takes precedence)}
90/06	• {Measuring instruments not otherwise provided for}
2090/061	 (weasuring instruments not otherwise provided for <i>f</i>) (for measuring dimensions, e.g. length)
2090/001	 {ror measuring dimensions, e.g. rength} {penetration depth}
2090/062	 (penetration depth) (for measuring volume)
2090/003	 . {for measuring volume} . {for measuring force, pressure or mechanical
2070/004	tension}
2090/065	• • { for measuring contact or contact pressure }
2090/066	• • { for measuring torque }
2090/067	• {for measuring angles}
2090/068	• • { with a bubble level }
2090/069	• • • {using a plummet or weight}
90/08	• {Accessories or related features not otherwise
	provided for}
2090/0801	• • {Prevention of accidental cutting or pricking}
2090/08021	• • • {of the patient or his organs}
2090/0803	• • {Counting the number of times an instrument is
	used}
2090/0804	• • {Counting number of instruments used;
	Instrument detectors}
2090/0805	• • • {automatically, e.g. by means of magnetic,
2090/0806	optical or photoelectric detectors}
2090/0800	• • • {Instrument detectors with a removable part, e.g. working tip}
2090/0807	• {Indication means}
2090/0807	 . (for indicating correct assembly of
2090/0808	components, e.g. of the surgical apparatus}
2090/0809	• • {Indication of cracks or breakages}
2090/080	 . {for contamination or dirt}
2090/0811	 for the position of a particular part of an
20000000	instrument with respect to the rest of the
	instrument, e.g. position of the anvil of a
	stapling instrument}
2090/0812	{indicating loosening or shifting of parts of
	an instrument, signaling maladjustment of
	parts}
2090/0813	• • {Accessories designed for easy sterilising, i.e. re-
	usable }
2090/0814	• • {Preventing re-use}
2090/0815	• • {Implantable devices for insertion in between
2000/0016	organs or other soft tissues}
2090/0816	• • { for preventing adhesion }
2090/0817	• • {Spatulas or spatula like extensions}
2090/0818	• {Redundant systems, e.g. using two independent measuring systems and comparing the signals}
90/10	• for stereotaxic surgery, e.g. frame-based stereotaxis
2090/101	 for stereotaxic surgery, e.g. frame-based stereotaxis {for stereotaxic radiosurgery}
2090/101	 {Tor stereotaxic radiosurgery} {Cranial plugs for access to brain}
2090/103	 . {Cranial plugs for access to brain} . with guides for needles or instruments, e.g.
JU/11	arcuate slides or ball joints
90/13	• • • guided by light, e.g. laser pointers
90/13 90/14	 Fixators for body parts, e.g. skull clamps;
	Constructional details of fixators, e.g. pins
90/16	Bite blocks
90/17	for soft tissue, e.g. breast-holding devices
90/18	Retaining sheets, e.g. immobilising masks
	{made from a thermoplastic material}

90/20	• Surgical microscopes characterised by non-optical
90/20	aspects
90/25	• • Supports therefor
90/30	• Devices for illuminating a surgical field, the devices having an interrelation with other surgical devices
2000/201	or with a surgical procedure
2090/304	• • {using chemi-luminescent materials}
2090/306	• • {using optical fibres}
2090/308	• • {Lamp handles}
2090/309	• • {using white LEDs}
90/35	Supports therefor
90/36	 {Image-producing devices or illumination devices not otherwise provided for}
90/361	• • {Image-producing devices, e.g. surgical cameras}
2090/3612	• • • { with images taken automatically }
2090/3614	• • • {using optical fibre}
2090/3616	• • • {Magnifying glass}
2090/3618	• • • {with a mirror}
2090/363	• • {Use of fiducial points}
2090/364	• • {Correlation of different images or relation of image positions in respect to the body}
2090/365	• • • {augmented reality, i.e. correlating a live
0000/066	optical image with another image}
2090/366	• • {using projection of images directly onto the body}
2090/367	• • {creating a 3D dataset from 2D images using position information}
2090/368	• • {changing the image on a display according to the operator's position}
90/37	• • {Surgical systems with images on a monitor during operation}
2090/371	• • • {with simultaneous use of two cameras}
2090/372	• • • {Details of monitor hardware}
2090/373	• • • {using light, e.g. by using optical scanners}
2090/3735	• • • {Optical coherence tomography [OCT]}
2090/374	••• {NMR or MRI}
2090/376	• • {using X-rays, e.g. fluoroscopy}
2090/3762	• • • • {using computed tomography systems [CT]}
2090/3764	•••• {with a rotating C-arm having a cone
	beam emitting source}
2090/378	• • • {using ultrasound}
2090/3782	• • • { transmitter or receiver in catheter or
	minimal invasive instrument}
2090/3784	• • • • {both receiver and transmitter being in
	the instrument or receiver being also
2000/2=	transmitter}
2090/3786	• • • • {receiver only}
2090/3788	••••• {transmitter only}
90/39	 {Markers, e.g. radio-opaque or breast lesions markers}
2090/3904	• • {specially adapted for marking specified tissue}
2090/3908	• • • {Soft tissue, e.g. breast tissue}
2090/3912	• • • {Body cavities}
2090/3916	• • • {Bone tissue}
2090/392	• • {Radioactive markers}
2090/3925	• • {ultrasonic}
2090/3929	• • • {Active markers}
2090/3933	• • {Liquid markers}
2090/3937	• • {Visible markers}
2090/3941	• • • {Photoluminescent markers}
2090/3945	• • • {Active visible markers, e.g. light emitting
	diodes}

2090/395	• • {with marking agent for marking skin or other	
	tissue}	
2090/3954	• • {magnetic, e.g. NMR or MRI}	
2090/3958	• • • {emitting a signal}	
2090/3962	• • {palpable}	
2090/3966	• • {Radiopaque markers visible in an X-ray image}	
2090/397	• • {electromagnetic other than visible, e.g.	
	microwave}	
2090/3975	• • • {active}	
2090/3979	• • • • {infrared}	
2090/3983	• • {Reference marker arrangements for use with	
	image guided surgery }	
2090/3987	• • {Applicators for implanting markers}	
2090/3991	• • {having specific anchoring means to fixate the	
	marker to the tissue, e.g. hooks}	
2090/3995	• • {Multi-modality markers}	
90/40	• Apparatus fixed or close to patients specially	
	adapted for providing an aseptic surgical	
2000/401	environment	
2090/401	• {using air flow}	
90/50	• Supports for surgical instruments, e.g. articulated	
2090/502	arms	
2090/502	• {Headgear, e.g. helmet, spectacles}	
2090/3023	 . {with a counter-balancing mechanism} . {with a counterweight} 	
2090/504	· · · · · · · · · · · · · · · · · · ·	
2090/308	• {using a parallelogram linkage, e.g. panthograph}	
	• {with releasable brake mechanisms}	
90/53 90/57	• connected to the surgeon's body, e.g. by a belt	
2090/571	• Accessory clamps	
2090/371	• • • {for clamping a support arm to a bed or other supports}	
90/60	• Supports for surgeons, e.g. chairs or hand supports (seats for dentists or surgeons associated with dental chairs or operating chairs <u>A61G 15/00</u>)	
90/70	Cleaning devices specially adapted for surgical instruments	
2090/701	• • {for flexible tubular instruments, e.g.	
2000/702	endoscopes } {Devices for testing the cleaning process, e.g. test	
2090/702	soils}	
90/80	• Implements for cleaning or washing the skin of	
<i>J</i> 0/80	surgeons or patients	
90/90	• Identification means for patients or instruments, e.g.	
20/20	tags	
90/92	• • coded with colour	
90/94	• • coded with symbols, e.g. text	
90/96	• • using barcodes	
90/98	• using electromagnetic means, e.g. transponders	
	· · · · · · · · · · · · · · · · · · ·	
2217/00	General characteristics of surgical instruments	
2217/002	• Auxiliary appliance	
2217/005	with suction drainage system	
2217/007	with irrigation system	
	5	
Diagnosis; Psycho-physical tests		

2090/395 . . . { with marking agent for marking skin or other

2218/00 Details of surgical instruments, devices or methods for transferring non-mechanical forms of energy to or from the body

2218/001	• having means for irrigation and/or aspiration of substances to and/or from the surgical site (<u>A61B 2018/00029</u> and <u>A61B 2018/1472</u> take
	precedence)
2218/002	Irrigation
2218/003	• • • using a spray or a foam
2218/005	• • • using gas or vapor, e.g. for protection or purging
2218/006	for smoke evacuation
2218/007	Aspiration
2218/008	• • • for smoke evacuation
2503/00	Evaluating a particular growth phase or type of
2505/00	persons or animals
2503/02	• Foetus
2503/02	
	Babies, e.g. for SIDS detection
2503/045	• Newborns, e.g. premature baby monitoring
2503/06	• Children, e.g. for attention deficit diagnosis
2503/08	• Elderly
2503/10	• Athletes
2503/12	• Healthy persons not otherwise provided for, e.g.
2502/20	subjects of a marketing survey
2503/20	• Workers
2503/22	• • Motor vehicles operators, e.g. drivers, pilots, captains
2503/24	Computer workstation operators
2503/40	• Animals
2503/42	. for laboratory research
2505/00	Evaluating, monitoring or diagnosing in the
	context of a particular type of medical care
2505/01	. Emergency care
2505/03	. Intensive care
2505/05	Surgical care
2505/07	. Home care
2505/09	• Rehabilitation or training
2560/00	Constructional details of operational features of
	apparatus; Accessories for medical measuring
0560/00	apparatus
2560/02	• Operational features
2560/0204	• • of power management
2560/0209	adapted for power saving
2560/0214	• • • of power generation or supply
2560/0219	of externally powered implanted units
2560/0223	• • of calibration, e.g. protocols for calibrating
	sensors
2560/0228	• • • using calibration standards
2560/0233	Optical standards
2560/0238	• • • Means for recording calibration data
2560/0242	• adapted to measure environmental factors, e.g. temperature, pollution
2560/0247	• • • for compensation or correction of the measured physiological value
2560/0252	• • • • using ambient temperature
2560/0252	using atmospheric pressure
2560/0257	
2560/0266	• for monitoring or limiting apparatus function
2560/0271	using a remote monitoring unit Determining malfunction
2560/0276	Determining malfunction
	-
2560/028	Arrangements to prevent overuse, e.g. by counting the number of uses
2560/028 2560/0285	Arrangements to prevent overuse, e.g. by

2560/0295	• adapted for recording user messages or annotations
2560/04	Constructional details of apparatus
2560/0406	• specially shaped apparatus housings
2560/0412	Low-profile patch shaped housings
2560/0418	Pen-shaped housings
2560/0425	Ergonomically shaped housings
	(A61B 2560/0418 takes precedence)
2560/0431	• Portable apparatus, e.g. comprising a handle or
	case
2560/0437	• • Trolley or cart-type apparatus
2560/0443	Modular apparatus
2560/045	• • • with a separable interface unit, e.g. for
	communication
2560/0456	• • Apparatus provided with a docking unit
2560/0462	Apparatus with built-in sensors
2560/0468	Built-in electrodes
2560/0475	• • Special features of memory means, e.g.
	removable memory cards
2560/0481	in implanted apparatus
2560/0487	• • Special user inputs or interfaces
2560/0493	controlled by voice
2560/06	Accessories for medical measuring apparatus
2560/063	Devices specially adapted for delivering
	implantable medical measuring apparatus
2560/066	catheters therefor
2562/00	Details of sensors; Constructional details of sensor
	housings or probes; Accessories for sensors
05 (0)00	
2562/02	• Details of sensors specially adapted for in-vivo
2562/02	measurements
2562/02	
	measurements
2562/0204	 measurements Acoustic sensors Special features of electrodes classified in <u>A61B 5/24</u>, <u>A61B 5/25</u>, <u>A61B 5/283</u>,
2562/0204	 measurements Acoustic sensors Special features of electrodes classified in <u>A61B 5/24</u>, <u>A61B 5/25</u>, <u>A61B 5/283</u>, <u>A61B 5/291</u>, <u>A61B 5/296</u>, <u>A61B 5/053</u>
2562/0204 2562/0209 2562/0214	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes
2562/0204 2562/0209 2562/0214 2562/0215	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing
2562/0204 2562/0209 2562/0214 2562/0215	 measurements Acoustic sensors Special features of electrodes classified in <u>A61B 5/24</u>, <u>A61B 5/25</u>, <u>A61B 5/283</u>, <u>A61B 5/291</u>, <u>A61B 5/296</u>, <u>A61B 5/053</u> Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes,
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0219	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0219 2562/0223	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0219 2562/0223 2562/0228	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0219 2562/0223	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0219 2562/0223 2562/0228 2562/0223	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in <u>A61B 5/00</u>
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0219 2562/0223 2562/0228	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in <u>A61B 5/00</u> Optical sensor arrangements for performing
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0219 2562/0223 2562/0228 2562/0233 2562/0238	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in A61B 5/00 Optical sensor arrangements for performing transmission measurements on body tissue
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0219 2562/0223 2562/0228 2562/0223	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in A61B 5/00 Optical sensor arrangements for performing transmission measurements on body tissue for varying or adjusting the optical path length
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0223 2562/0228 2562/0228 2562/0233 2562/0238	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in A61B 5/00 Optical sensor arrangements for performing transmission measurements on body tissue for varying or adjusting the optical path length in the tissue
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0223 2562/0223 2562/0228 2562/0233 2562/0238 2562/0242 2562/0242	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in A61B 5/00 Optical sensor arrangements for performing transmission measurements on body tissue for varying or adjusting the optical path length in the tissue Pressure sensors
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0223 2562/0223 2562/0228 2562/0238 2562/0238 2562/0242 2562/0242	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in A61B 5/00 Optical sensor arrangements for performing transmission measurements on body tissue for varying or adjusting the optical path length in the tissue Pressure sensors Load cells
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0223 2562/0223 2562/0223 2562/0233 2562/0238 2562/0238 2562/0242 2562/0247 2562/0252 2562/0257	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in <u>A61B 5/00</u> Optical sensor arrangements for performing transmission measurements on body tissue for varying or adjusting the optical path length in the tissue Pressure sensors Load cells Proximity sensors
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0223 2562/0228 2562/0228 2562/0233 2562/0238 2562/0238 2562/0242 2562/0242 2562/0252 2562/0257 2562/0261	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in <u>A61B 5/00</u> Optical sensor arrangements for performing transmission measurements on body tissue for varying or adjusting the optical path length in the tissue Pressure sensors Strain gauges
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0223 2562/0228 2562/0228 2562/0233 2562/0233 2562/0238 2562/0242 2562/0247 2562/0257 2562/0257 2562/0261 2562/0266	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in A61B 5/00 Optical sensor arrangements for performing transmission measurements on body tissue for varying or adjusting the optical path length in the tissue Pressure sensors Strain gauges Optical strain gauges
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0219 2562/0223 2562/0228 2562/0233 2562/0233 2562/0238 2562/0247 2562/0247 2562/0257 2562/0257 2562/0257 2562/0261 2562/0266 2562/0271	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in A61B 5/00 Optical sensor arrangements for performing transmission measurements on body tissue for varying or adjusting the optical path length in the tissue Pressure sensors Strain gauges Optical strain gauges Thermal or temperature sensors
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0219 2562/0223 2562/0228 2562/0233 2562/0233 2562/0238 2562/0242 2562/0247 2562/0247 2562/0257 2562/0261 2562/0266 2562/0271 2562/0276	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in A61B 5/00 Optical sensor arrangements for performing transmission measurements on body tissue for varying or adjusting the optical path length in the tissue Pressure sensors Strain gauges Optical strain gauges Thermal or temperature sensors comprising a thermosensitive compound
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0219 2562/0223 2562/0228 2562/0233 2562/0233 2562/0238 2562/0247 2562/0247 2562/0257 2562/0257 2562/0261 2562/0266 2562/0271	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in A61B 5/00 Optical sensor arrangements for performing transmission measurements on body tissue for varying or adjusting the optical path length in the tissue Pressure sensors Load cells Proximity sensors Optical strain gauges optical strain gauges comprising a thermosensitive compound Microscale sensors, e.g. electromechanical
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0219 2562/0223 2562/0228 2562/0233 2562/0233 2562/0238 2562/0242 2562/0247 2562/0247 2562/0257 2562/0261 2562/0266 2562/0271 2562/0276	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in A61B 5/00 Optical sensor arrangements for performing transmission measurements on body tissue for varying or adjusting the optical path length in the tissue Pressure sensors Strain gauges Optical strain gauges Thermal or temperature sensors comprising a thermosensitive compound
2562/0204 2562/0209 2562/0214 2562/0215 2562/0217 2562/0223 2562/0223 2562/0228 2562/0233 2562/0238 2562/0238 2562/0242 2562/0247 2562/0247 2562/0257 2562/0257 2562/0261 2562/0266 2562/0271 2562/0276 2562/028	 measurements Acoustic sensors Special features of electrodes classified in A61B 5/24, A61B 5/25, A61B 5/283, A61B 5/291, A61B 5/296, A61B 5/053 Capacitive electrodes Silver or silver chloride containing Electrolyte containing Inertial sensors, e.g. accelerometers, gyroscopes, tilt switches Magnetic field sensors Microwave sensors Special features of optical sensors or probes classified in A61B 5/00 Optical sensor arrangements for performing transmission measurements on body tissue for varying or adjusting the optical path length in the tissue Pressure sensors Load cells Proximity sensors Optical strain gauges optical strain gauges comprising a thermosensitive compound Microscale sensors, e.g. electromechanical sensors [MEMS]

2562/0295	• Strip shaped analyte sensors for apparatus
	classified in <u>A61B 5/145</u> or <u>A61B 5/157</u> (disposable multilayered or laminated electrodes
	<u>G01N 27/307;</u> details of handling chemical test
	elements <u>G01N 33/4875</u>)
2562/04	. Arrangements of multiple sensors of the same type
2562/043	• • in a linear array
2562/046	• • in a matrix array
2562/06	. Arrangements of multiple sensors of different types
2562/063	• • in a linear array
2562/066	• • in a matrix array
2562/08	• Sensors provided with means for identification, e.g.
	barcodes or memory chips
2562/085	• combined with means for recording calibration
2562/12	data Manufacturing methods specially adopted for
2562/12	Manufacturing methods specially adapted for producing sensors for in-vivo measurements
2562/125	characterised by the manufacture of electrodes
2562/125	Coupling media or elements to improve sensor
2302/14	contact with skin or tissue
2562/143	for coupling microwaves
2562/145	for optical coupling
2562/140	 Details of sensor housings or probes; Details of
2502/10	structural supports for sensors (A61B 2560/0462
	takes precedence)
2562/162	• Capsule shaped sensor housings, e.g. for
	swallowing or implantation
2562/164	the sensor is mounted in or on a conformable
	substrate or carrier
2562/166	• • the sensor is mounted on a specially adapted
	printed circuit board
2562/168	• Fluid filled sensor housings
2562/17	Comprising radiolucent components
2562/18	• Shielding or protection of sensors from
	environmental influences, e.g. protection from
25(2/182	mechanical damage
2562/182 2562/185	• Electrical shielding, e.g. using a Faraday cage
2562/185	Optical shielding, e.g. baffles Strain relief means
2562/22	Arrangements of medical sensors with cables or leads; Connectors or couplings specifically adapted
	for medical sensors
2562/221	Arrangements of sensors with cables or leads, e.g.
2002/221	cable harnesses
2562/222	Electrical cables or leads therefor, e.g. coaxial
	cables or ribbon cables
2562/223	Optical cables therefor
2562/224	Cables for conducting fluids therefor
2562/225	• • Connectors or couplings
2562/226	comprising means for identifying the
	connector, e.g. to prevent incorrect connection
	to socket
2562/227	Sensors with electrical connectors
2562/228	Sensors with optical connectors
2562/24	• Hygienic packaging for medical sensors;
25/2/242	Maintaining apparatus for sensor hygiene
2562/242	• Packaging, i.e. for packaging the sensor or
2562/245	apparatus before use Means for cleaning the sensor in situ or during
2562/245	Means for cleaning the sensor in-situ or during use, e.g. hygienic wipes
2562/247	 Hygienic covers, i.e. for covering the sensor or
2302/247	apparatus during use
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2576/00	Medical imaging apparatus involving image
	processing or analysis (A61B 1/00009, A61B 6/52
	and A61B 8/52 take precedence; image processing per
	se G06T; details of algorithms for analysing medical
	images <u>G06T 7/0012</u>)
2576/02	• specially adapted for a particular organ or body part
2576/02	3 . for the heart

2576/026 . . for the brain