

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 64

DATE: MARCH 1, 2015

PROJECT: DP0051

The following classification changes will be effected by this Notice of Changes:

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
New or Modified Definitions <u>outside</u> a Revision Project:	A01M	1/00, 3/00, 5/00, 7/00, 9/00, 11/00, 13/00, 15/00, 17/00, 19/00, 21/00, 23/00, 25/00, 27/00, 29/00, 31/00
	A23D	7/00
	A24B	15/00
	A41G	(subclass)
	A47G	1/21, 9/08, 23/0225, 25/186
	A61K	8/00, 8/72, 35/00
	A61M	1/0001, 1/0009, 1/0013, 1/0019, 1/0023, 1/0039, 1/0043, 1/0064, 1/0074, 1/0078, 1/008, 1/0088, 1/02, 1/0263, 1/0268, 1/0272, 1/0281, 1/04, 1/08, 1/1053, 1/1067, 1/1068, 1/16, 1/1692, 1/26, 1/3462, 1/3472, 1/3643, 5/00, 9/00, 11/00, 11/02, 11/04, 11/041, 11/06, 11/08, 15/00, 15/0028, 15/0045, 15/009, 16/0045, 16/0072, 16/04, 16/0465, 16/0468, 16/10, 16/18, 21/00, 21/02, 25/0009, 2025/0057, 2025/006, 2025/0062, 25/0127
	B23K	35/00, 35/001, 35/02, 35/22, 35/36, 35/38, 35/40
	B23P	23/00, 23/02, 23/04, 23/06
	B27C	7/00
B29D	29/10, 30/02	
B60K	6/00, 17/28, 17/3462	
B65G	47/515, 47/901	
B66D	(subclass)	
B67C	9/00	
C08B	1/00, 9/00, 16/00, 17/00	
C08G	(subclass), 2/00, 2/12, 4/00, 6/00, 8/00, 12/00, 14/00, 18/00, 18/02, 18/08, 18/09, 18/10, 18/63, 18/65, 67/00, 85/00	
D06F	35/008, 58/263	
E01B	17/00	
E01C	1/00, 3/00	
F01D	5/028, 5/186	
G01N	21/84, 21/8422, 21/8483 21/85, 21/8507, 21/86, 21/87, 21/88, 21/8803, 21/8806, 21/89, 21/8901, 21/8915, 21/8916, 21/894, 21/896, 21/898, 21/8983,	

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
		21/90, 21/9009, 21/9036, 21/9045, 21/9054, 21/9072, 21/9081, 21/909, 21/9501, 21/9508, 21/951, 21/9515, 21/952, 21/954, 21/956, 21/95684, 21/95692, 21/958, 33/586, 33/587
	G06K	13/00, 19/083, 19/10
	G07F	(subclass), 3/00, 17/32, 17/34
	G09F	13/00

No other subclasses/groups are impacted by this Notice of Changes.

This Notice of Changes includes the following [Check the ones included]:

1. CLASSIFICATION SCHEME CHANGES
 - A. New, Modified or Deleted Group(s)
 - B. New, Modified or Deleted Warning Notice(s)
 - C. New, Modified or Deleted Note(s) or Guidance Heading(s)
2. DEFINITIONS (New or Modified)
 - A. DEFINITIONS (Full definition template)
 - B. DEFINITIONS (Definitions Quick Fix)
3. REVISION CONCORDANCE LIST (RCL)
4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5. CROSS-REFERENCE LIST (CRL)

2. A. DEFINITIONS (i.e. new or modified)

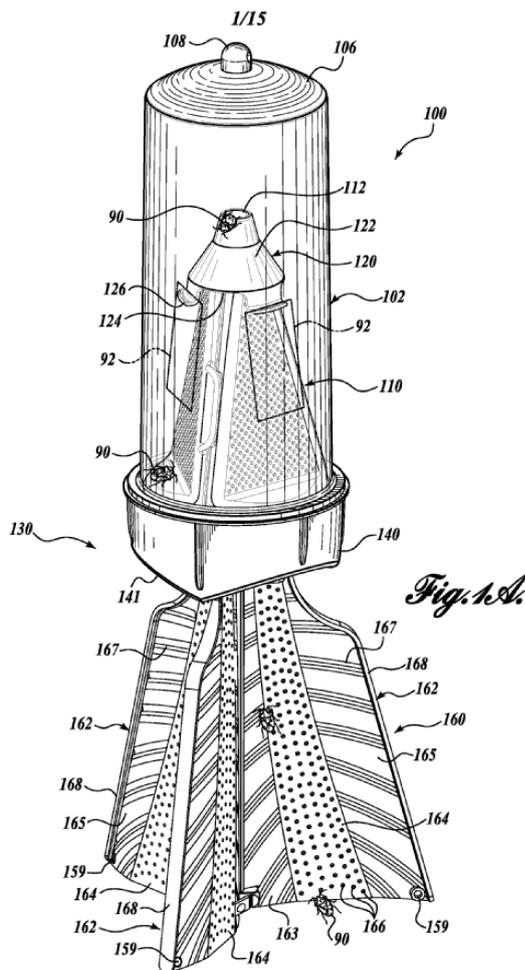
A01M1/00

Insert:

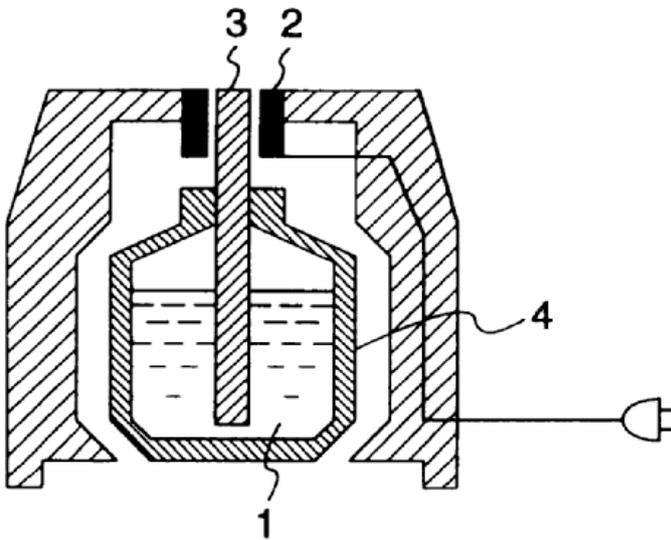
Definition statement

This group covers:

Example from WO2012145198:



Example from FR2738718:



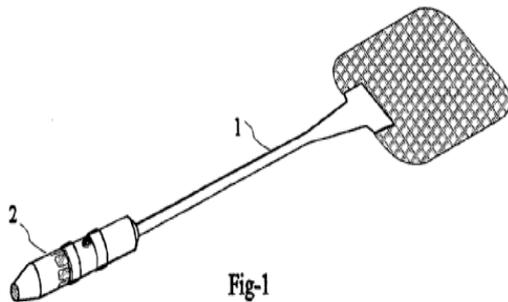
A01M3/00

Insert:

Definition statement

This group covers:

Example from NL1019153CC:



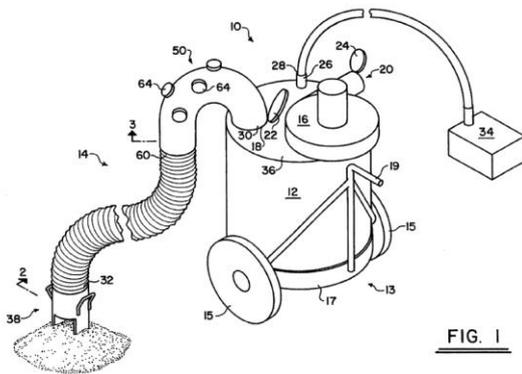
A01M5/00

Insert:

Definition statement

This group covers:

Example from US5400543:



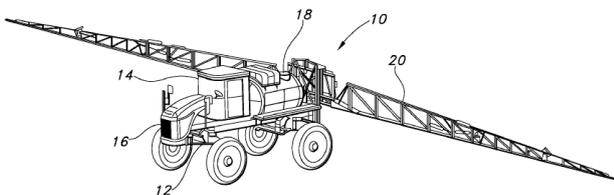
A01M7/00

Insert:

Definition statement

This group covers:

Example from WO2012088014:



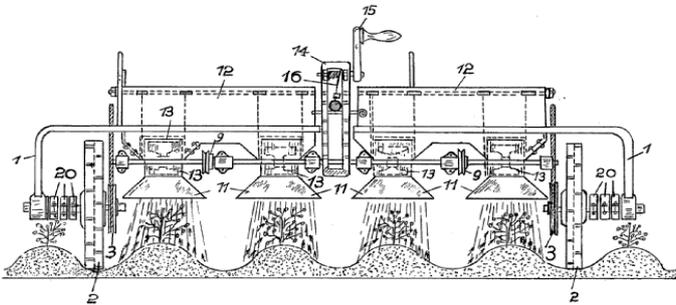
A01M9/00

Insert:

Definition statement

This group covers:

Example from DE924662:



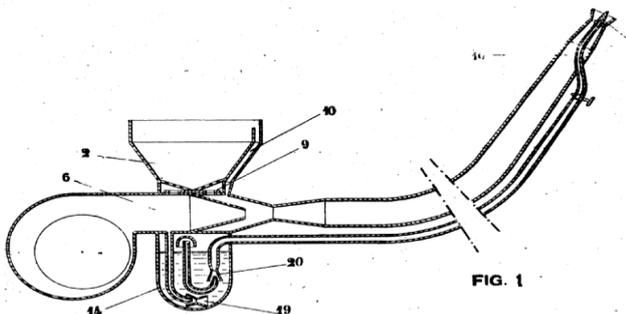
A01M11/00

Insert:

Definition statement

This group covers:

Example from DE1403369:



A01M13/00

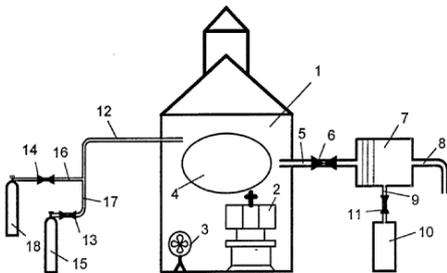
Insert:

Definition statement

This group covers:

Apparatus for fumigating e.g. shipping containers, buildings, furniture and rats in holes

Example from DE19708669:



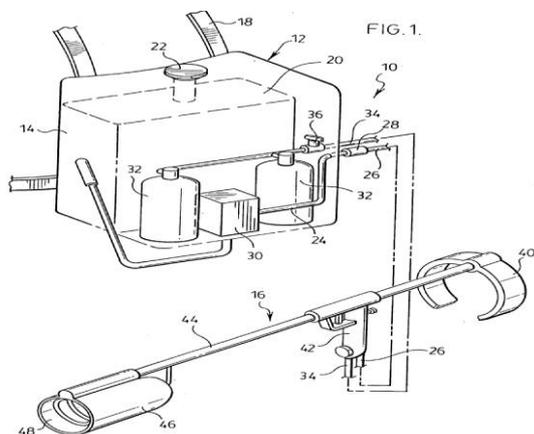
A01M15/00

Insert:

Definition statement

This group covers:

Example from WO2004070269:



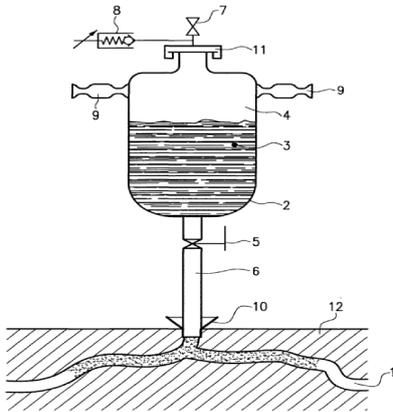
A01M17/00

Insert:

Definition statement

This group covers:

Example from DE19844718:



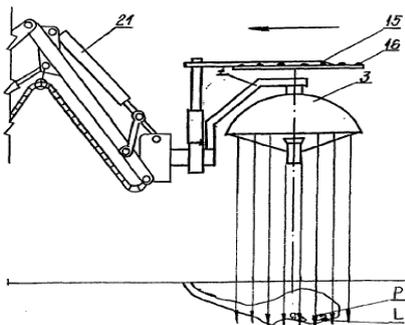
A01M19/00

Insert:

Definition statement

This group covers:

Example from WO0176362:



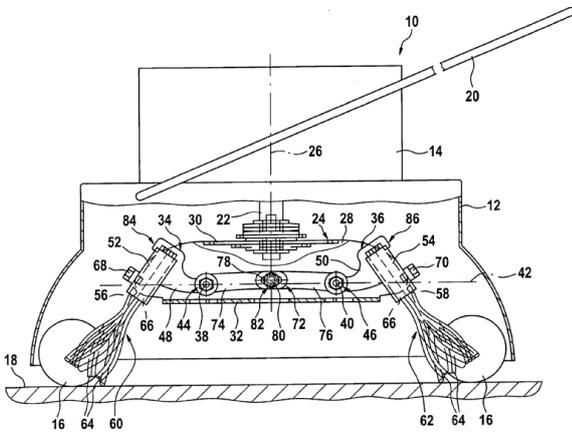
A01M21/00

Insert:

Definition statement

This group covers:

Example from DE202005014568U:



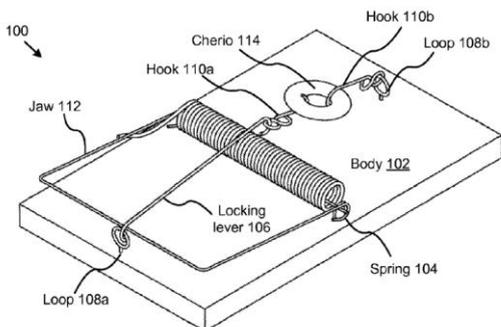
A01M23/00

Insert:

Definition statement

This group covers:

Example from US2012297661:



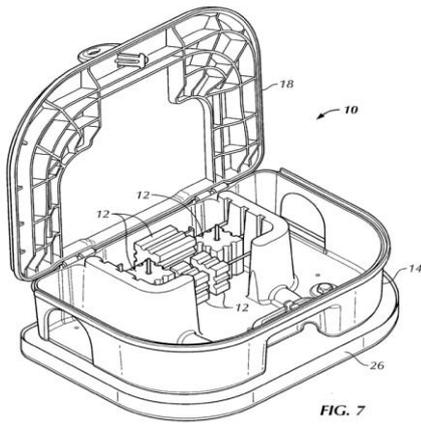
A01M25/00

Insert:

Definition statement

This group covers:

Example from WO2011142740:



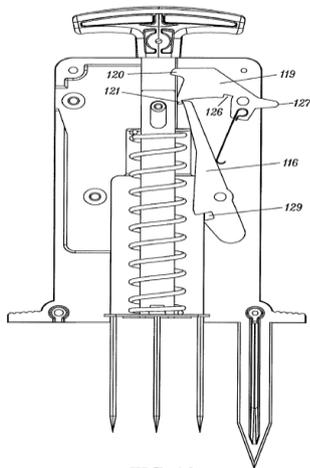
A01M27/00

Insert:

Definition statement

This group covers:

Example from US2012000114:



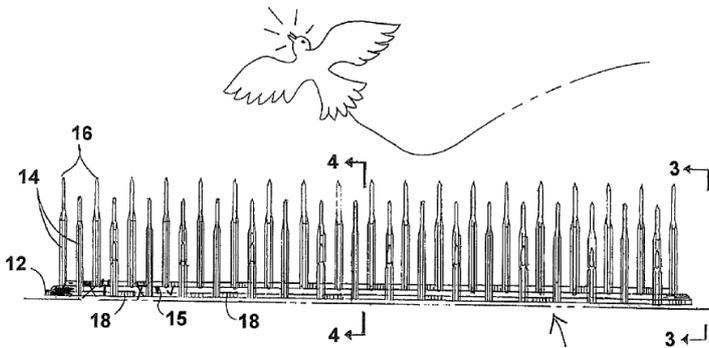
A01M29/00

Insert:

Definition statement

This group covers:

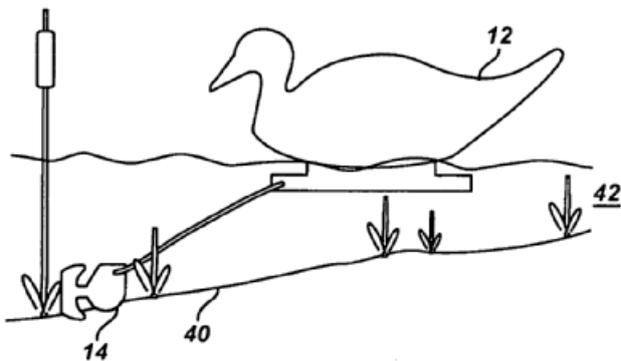
Example from US2010013123:



A01M31/00

Insert: In the Definition Statement after "... prey animals."

Example from WO2012057814:



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A23D7/00

Insert: New definition

Definition statement

This group covers:

Edible emulsions.

Non-specified use of composition characterized by triglycerides.

A24B15/00

Insert:

Glossary of terms

In this main group, the following terms (or expressions) are used with the meaning indicated:

Organic solvent	Carbon containing solvent except carbon dioxide.
Tobacco substitute	This definition encompasses both non-tobacco plants suitable for smoking or as replacer for cigarette and substitute of cigarettes comprising tobacco extracts, e.g. flavours and possibly nicotine

A41G1/00

Insert:

Special rules of classification within this subclass

In this subclass, from 01-08-2009 onwards, new documents are classified according to the ECLA Reform approach (also known as Indexing Code mirror), i.e. "invention information" is identified with classification symbols, e.g. [A41G1/00B](#), while "additional information" is identified with Indexing Code symbols, e.g. [K41G1/00B](#).

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A47G1/21

Replace: The Informative References section with the following

Informative references

Attention is drawn to the following places, which may be of interest for search:

Show hangers for carpets, wall paper, textile materials in the form of flat shaped samples	A47F 7/163
Devices for suspending handbags from tables, chairs or the like	A47G 29/083
Grips, hooks, or the like for hanging-up towels	A47K 10/12
Clamping devices for hanging cleaning tools	A47L 13/512
Storage means for workshops facilitating access to, or handling of, work, tools or instruments	B25H 3/00
Paper-clips	B42F 1/02
Suspended filing appliances for hanging a single large drawing or the like e.g. with self-locking means	B42F 15/066
Clothes-pegs	D06F 55/00
Hooks with clamping action in general	F16B 2/00
Supports or holders for show-cards (photos) using suspension clamps	G09F 1/103

A47G 9/08

Replace: The Informative References section with the following

Informative references

Attention is drawn to the following places, which may be of interest for search:

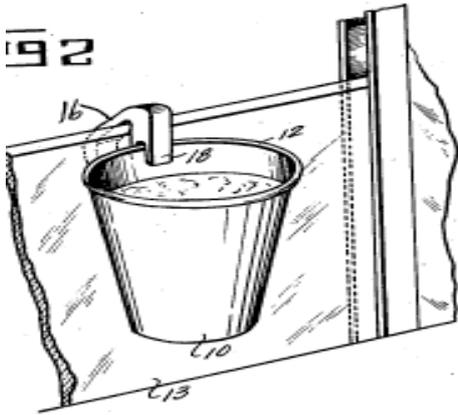
Mattresses for sleeping bags	A47C 27/00
Upper - lower sheet combinations eventually with pillow slip for general use	A47G 9/02
Arrangement of insulating layers of duvets or sleeping bags	A47G 9/0207
For perambulators	A47G 9/068
Sleeping bag liners	A47G 9/086
Loose filling materials	B68G 1/00 , B68G 2001/005

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A47G 23/0225

Insert: After the last illustration in the Definition Statement, the following



Delete: The duplicated definition statement following all the illustrations

Holder for one glass/cup attachable to a wall, table, plate, the ground, a person, etc (eg. Using magnets, suction cups, bean bags, clamps, etc.)

A47G 25/186

Insert:

Informative references

Attention is drawn to the following places, which may be of interest for search:

Hangers for clothing hangers

A47G25/145

A61K 8/00

Delete: In the Relationship between large subject matter areas section, the entire paragraph beginning with “Soap bars...”

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Insert:

- Soap bars (i.e. solid cleansing compositions) are classified in [C11D](#), even though general cleansing compositions which are usually liquid are classified in [A61Q](#) and in [A61K8/00](#).

Delete: In the Relationship between large subject matter section, the entire paragraph beginning with “Compositions...”

Insert:

- Compositions which can be used in a therapeutic treatment should be classified in [A61K31/00](#) to [A61K51/00](#) and subgroups if they are defined by their ingredients or in [A61K9/00](#) and subgroups, if they are defined by their physical form.

Delete: In the Informative references section, the last three rows in the table

[A61K8/72](#)

Delete: In the Definition statement section

... Supra molecular ...

Insert:

... Supra-molecular ...

[A61K35/00](#)

Delete: Between the References relevant and Informative references sections, the asterisk symbol (*)

Delete: In the Special Rules of Classification section, the fourth and fifth bulleted items

- Isolated cells that are transplanted without a culturing step, in order to obtain a therapeutic effect are classified in [A61K 35/00](#).

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- Mesenchymal stem cells are always classified in [A61K 35/12](#), if the cell type is not specified. Otherwise classify under the respective tissue.

Insert:

- Isolated cells that are transplanted without a culturing step, in order to obtain a therapeutic effect are classified in [A61K35/12](#) if the cell type is not specified. Otherwise classify under the respective tissue.
- Mesenchymal stem cells are always classified in [A61K35/28](#), irrespective of the origin.

A61M 1/0001

Insert:

Special rules of classification within this group

This group covers containers which are described as being usable in the context of medical suction drainage, they thus can be considered as being part of a suction device. Therefore there is no contradiction with the definition of [A61M1/00](#). The containers do not need to be rigid but many of them are. They are not required to act as a pump but some do, and then the appropriate subgroups may be applicable (e.g. [A61M1/0009](#), [A61M1/0011](#) or [A61M1/0003](#) in some cases). It does not always make sense to say that they are capable of being subject to vacuum, e.g. in the case that they have a flexible member creating suction this would make no sense. However, if it is clear that a container is not capable of being subject to vacuum there is the special group [A61M1/0019](#) for those. The fluid does not have to pass through the vacuum source, but it can, in some cases

A61M 1/0009

Replace: The Definition statement with the following

Only drainage containers (thus not syringe pumps where the aspirated material is not entering the syringe barrel) incorporating a movable rigid wall

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A61M 1/0013

Insert:

Definition statement

This group covers:

Systems for underwater drainage having a chamber functioning as a "water seal", which acts as a one way valve allowing gas to escape, but not to reenter, often called two- or three bottle systems, e.g. for chest cavity drainage

A61M 1/0019

Insert:

Special rules of classification within this group

This group and [A61M1/001](#) relate to containers which are usable with a suction system. Therefore it is implicit that they are part of a suction device and a subgroup of A61M1/00. However, a lot of documents describe in detail such a container and not the rest of the suction device or system (pump, drainage tube) necessary for the drainage process. Such a document should still be classified in A61M1/005 or in [A61M1/001](#) and subgroups, even if it does not describe the rest of the suction systems.

A61M 1/0023

Insert: In the References relevant section, after "... pumping containers"

for suction drainage which are comprised in the groups of containers

Delete: In the Informative references section, after "Containers"

therefor

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Insert:

Special rules of classification within this group

A suction drainage system generally has a suction means, a container and a drainage tube. If the focus is on the container, [A61M1/0001](#) or its subgroups should be used. If the focus is on the system, [A61M1/0023](#) or subgroups is used. If both are described, both classifications should be given. If the vacuum source is at the same time the container receiving the drained liquid, then the device is not considered as a system but as a container. Therefor only the appropriate subgroup of [A61M1/0001](#) should be used or the head group [A61M1/0001](#) if none of the subgroups applies.

A61M 1/0039

Insert:

Definition statement

This group covers:

Handpieces, these being the proximal part of the device which the surgeon holds in his hand to perform suction drainage, e.g. for controlling suction

A61M 1/0043

Replace: The Definition statement with the following

Handpieces with means for varying suction manually by changing the cross section of the line, e.g. changing the cross section of the line by pinching tubing

A61M 1/0064

Insert:

Definition statement

This group covers:

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Handpieces for suction-irrigation systems, these being the proximal part of the device which the surgeon holds in his hand to perform suction-irrigation e.g. for controlling suction and/or irrigation

A61M 1/0074

Replace: The Definition statement with the following

Suction pumps where the vacuum is created above a liquid flowing from a closed container, e.g. pumps for pleural drainage

A61M 1/0078

Insert:

Definition statement

This group covers:

Tube strippers, which are tools used for removing fluid from medical tubes

A61M 1/008

Insert:

Special rules of classification within this group

This is a subgroup to the group A61M1/00; if no suction is involved then the documents are not for A61M1/008 either. However, this group is for documents where details of the drainage tubes or aspiration tips are described, even if no details of the suction are given.

A61M 1/0088

Insert:

Definition statement

This group covers:

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Drainage tubes and aspiration tips where a seal isolates the treatment area such as in negative pressure wound treatment devices

A61M 1/02

Insert:

Definition statement

This group covers:

Apparatus for blood transfusion, for blood collection in view of transfusion and for treatment of collected blood in view of later transfusion

Insert:

Special rules of classification within this group

Either collection of blood in amounts interesting for transfusion (taking a sample for diagnosis would not fall under this) or treatment of collected blood in view of later transfusion is required for classification in this group

A61M 1/0263

Insert:

Special rules of classification within this group

Not used to classify new documents. Use A61M1/0272 instead.

A61M 1/0268

Insert:

Special rules of classification within this group

Not used to classify new documents. Use A61M1/0281 instead.

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A61M 1/0272

Replace: The Definition statement with the following

Treatment of blood, after collection from a donor, for the purpose of being conserved.

A61M 1/0281

Replace: The Definition statement with the following

Treatment of blood for the purpose of being introduced into a patient.

A61M 1/04

Replace: The Definition statement with the following

Devices for treating pneumothorax (i.e. abnormal collection of gas in the pleural space) and devices for creating and treating a pneumostoma

A61M 1/08

Replace: The Definition statement with the following

The traditional cupping glasses, used in cupping therapy where a partial vacuum is created in cups placed on the skin either by means of heat or suction; the group contains also some similar devices which are used as poison extractors

A61M 1/1053

Insert:

References relevant to classification in this group

This group does not cover:

Drives involving a rotary motor	A61M 1/1046
---------------------------------	-----------------------------

A61M 1/1067

Delete: The entire References relevant section

A61M 1/1068

Insert:

Definition statement

This group covers:

Pumps using the heart wall as a flexible element, i.e. by acting directly on the heart wall, e.g. by enveloping the heart

A61M 1/16

Insert:

Definition statement

This group covers:

Dialysis systems, artificial kidneys and blood oxygenators where treatment involves a semi-permeable membrane separating blood from dialysate in a dialyser and separating blood from oxygen in an oxygenator

A61M 1/1692

Insert:

Definition statement

This group covers:

Dialysis systems where means are provided for detecting traces of blood in the dialysate, e.g. to detect the presence of a leak in the membrane

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A61M 1/26

Insert:

Definition statement

This group covers:

Dialysis systems, artificial kidneys and blood oxygenators which incorporate elements internal to the treatment module where the membrane is located which are moving (e.g. moving membranes)

A61M 1/3462

Insert:

Definition statement

This group covers:

Fluidic circuits for the preparation of substitution fluids.

Insert:

Special rules of classification within this group

The fact that the circuits are fluidic does not exclude that they may be electrically controlled.

A61M 1/3472

Insert:

Definition statement

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Filtering material out of the blood by passing it through a membrane, i.e. haemofiltration, diafiltration, with treatment of the filtrate, e.g. by filtration, dialysis, absorption, chemical treatment, biological treatment, heating

A61M 1/3643

Delete: In the Informative references table, first row:

dialysator

Insert:

dialyser

A61M 5/00

Insert: In the Special Rules section, after "...G06F 19/00."

In A61B8/0891, the blood vessels is analysed for diagnosis purpose only.
All couplings and connectors are classified in A61M39/00.

Insert: In the Special Rules section, after "Further details of subgroups"

A61M5/007
Delivery of contrast media

Insert: In the Special Rules section, after "...the needle, etc.)"

A61M5/427

In the blood vessel is located prior to an injection (treatment).

A61M 9/00

Delete: The Definition statement section

A61M 11/00

Insert:

Definition statement

This group covers:

Sprayers or atomisers of liquid, e.g. medication, water for humidification,

References relevant to classification in this group

This group does not cover:

Device to humidify the respiration air	A61M16/16
--	---------------------------

A61M 11/02

Insert:

Special rules of classification within this group

The positive air pressure be created by any means (i.e., piston, pre-pressurized canister with propellant, etc.)

A61M 11/04

Insert: In the Definition statement, after "...vaporiser"

, e.g. devices in which the vapor pressure of the liquid acting in a confined space is used to propel the liquid through an orifice to spray or atomize the liquid.

A61M 11/041

Insert:

Special rules of classification within this group

Heater vaporizes the liquid or acts on liquid in confined space to increase vapour pressure.

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A61M 11/06

Replace: The Definition statement with the following

Definition statement

This group covers:

Devices with a venturi system, i.e. non pocket size.

Insert:

References relevant to classification in this group

This group does not cover:

Pocket atomiser	A61M11/08
-----------------	---------------------------

A61M 11/08

Insert:

Definition statement

This group covers:

Devices with a venturi system, i.e. pocket size.

References relevant to classification in this group

This group does not cover:

Injector type, i.e. non pocket	A61M11/06
--------------------------------	---------------------------

A61M 15/00

Insert:

Definition statement

This group covers:

Devices or processes specially adapted to be used to insert or place media into human bodies by enhancing a naturally occurring method other than oral.

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A61M 15/0028

Insert: In the Definition statement, after "...feeding"

, e.g the single dose is inserted manually in the inhaler

A61M 15/0045

Replace: The Definition statement with the following

An inhaler/inhalator that accepts a package containing plural dosages of inhalant, e.g. multi-unit dose, with automatic feeding

A61M 15/009

Replace: The Definition statement with the following

Inhalators having a pressurized container, e.g. Metered Dose Inhaler (MDI). A sufficient structure to generate the spray is part of a package that is introduced into the inhalator and subsequently removed for disposal.

A61M 16/0045

Insert: In the Definition statement section, after "...gas"

, e.g CO2

A61M 16/0072

Insert: In the Definition statement section, after "...volume"

, e.g. single stroke piston pump.

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A61M 16/04

Insert: In the Definition statement section, after "...patient"

, e.g. endotracheal tubes.

A61M 16/0465

Insert: In the Definition statement section, after "...trachea"

, e.g. tracheostomy tube.

A61M 16/0468

Insert: In the Definition statement section, before "To enable..."

Example: to

A61M 16/10

Insert:

Definition statement

This group covers:

"Vapours": any substance in the vapour phase.

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A61M 16/18Insert: In the Definition statement section, after “Halothane”

, e.g. halogenated ethers.

A61M 21/00Insert:**Definition statement***This group covers:*

Devices or processes specially adapted to increase or decrease the mental activity of humans while awake (e.g., relax, stimulate) and that do so in a manner other than that which commonly occurs (e.g., creating boredom).

References relevant to classification in this group*This group does not cover:*

Alarm clocks	G04B23/00, G04C21/00
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A61M 21/02Reorder: The entries in the **Informative references** table to appear as follows:

Sleep evaluation	A61B5/4806
For massage	A61H
Analgesic delivery	A61M5/00, A61M16/00
Electrotherapy	A61N 1/3601, A61N 1/36
Applying alternating or intermittent electric currents for producing anaesthesia	A61N1/34
Electrical	A61N1/3601, A61N1/36A5

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A61M 25/0009

Insert: In the Special rules section after the first sentence

All machines that are specifically used for performing these manufacturing processes should be classified here, including large machines. If they are not used specifically for manufacturing catheters, then please see the references in this definition.

General methods for manufacturing and apparatuses for performing such methods are classified in the classes regarding methods, e.g. class **B21** (for metal products), **B26** (for cutting), **B29** (for plastic products). Methods for manufacturing, which are adapted to produce only a certain medical device (e.g. catheter, guidewire) will be classified in the class for the product, e.g. **A61** (for medical products). Apparatus for manufacturing a medical device which belong to a certain method for manufacturing will be classified in the same subgroup as the method.

For example, a method and apparatus of manufacturing of a special shaped balloon for the sole use with a balloon catheter (balloon used only for a catheter) will be classified in **A61M25/1029** as invention information. Usually this document should also be considered for **B29C49/00** (blow moulding) in addition.

As another example, a method and apparatus for manufacturing a plastic tube including blow moulding which discloses only casually that catheters can be made with it, will be classified in the relevant subgroup of **B29C49/00** as invention information and will get a classification in **A61M25/1029** as additional information if this method/apparatus could be relevant for a future search in this field.

A61M 2025/0057

Replace: The Definition statement with the following

Catheters using unconventional ways (i.e. other than delivery through large holes) for medicament delivery, e.g. through porous walls, hydrogel coatings with incorporated medicaments, through coils.

A61M 2025/006

Replace: The Definition statement with the following

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Catheters with an unusual surface topography (i.e. other than standard smooth surfaces) for solving technical problems, e.g. roughened surface for increasing friction between tissue and catheter.

A61M 2025/0062

Delete: In the Definition Statement section

No bearings or the like

A61M 25/0127

Insert:

Special rules of classification within this group

Magnetic guidance means and markers are classified here. Detection systems are classified in A61B. The combination of position detection and magnetic guidance means will be classified either here if the invention lies within the guidance, or in A61B if the invention lies in detection, or both here and in A61B if the inventions covers both aspects.

B23K35/00

Insert: New definition

Definition statement

This subclass/group covers:

Interlayers, electrodes, rods, wires, welding studs for metallurgical bonding of workpieces, for soldering, brazing, welding techniques, characterised by their mechanical features, composition, media.

Relationship between large subject matter areas

B22F provides for processes of making and working metallic powders.

B23K provides for processes of soldering or unsoldering, welding, cladding or plating by soldering or welding, cutting by applying heat locally e.g. flame cutting, working by laser

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beam. When the method is intended for providing a particular use/product then the use/product is classified as well (see informative references for some of them).

When the composition of the alloy is disclosed, either in claims or description, this one is classified in [C22C](#).

References relevant to classification in this group

This subclass/group does not cover:

Methods of soldering or unsoldering, welding, brazing, cladding or plating by soldering or welding, cutting	B23K1/00 - B23K33/00 , B23K37/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Catalysts	B01J
Manufacture of metal sheets, wire, rods, tubes or profiles, otherwise than by rolling	B21C
Working metallic powder, powder Metallurgical apparatus or processes	B22F , C22C1/04
Processes of soldering or unsoldering, welding, cladding or plating by soldering or welding, cutting by applying heat locally	B23K
Layered products	B32B
Vehicle, vehicle fitting, vehicle parts	B60R , B62D
Ceramics, refractories	C04B
Acyclic or carbocyclic compounds	C07C
Macromolecular compounds	C08F , C08G , C08K , C09D
Heat treatments of welded joints	C21D9/50
Alloys	C22C
Heat exchangers	F28F
Electrical wires	H01B
Contacts	H01H
Bonding wires, semiconductor devices/details	H01L
Electrical connectors	H01R
Electronic components	H05K

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Special rules of classification within this group

The IPC groups [B23K35/04](#) - [B23K35/20](#) are not used and instead covered by [B23K35/0205](#) - [B23K35/0294](#), while IPC group [B23K35/363](#) is covered by [B23K35/3601](#) - [B23K35/3618](#).

Under [B23K35/00](#) the last place rule is followed (classification in the last appropriate place) combined with multiple classifications for classifying a 100% disclosed alloy composition.

When classifying under [B23K35/00](#) all essential features disclosed should be classified as invention information while all other special features disclosed in claims, description, examples and figures/diagrams should be classified as additional information.

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

Soldering	process in which two or more metal items are joined together by melting and flowing a filler metal (solder) into the joint, the filler metal having a lower melting point than the workpiece;
Brazing	metal-joining process whereby a filler metal is heated above and distributed between two or more close-fitting parts by capillary action. The filler metal is brought slightly above its melting (liquidus) temperature while protected by a suitable atmosphere, usually a flux. It then flows over the base metal (known as wetting) and is then cooled to join the workpieces together; similar to soldering except using higher temperatures to melt the filler.
Welding	metal-joining process causing coalescence, usually by melting the workpieces and adding a filler material to form a pool of molten material (the <i>weld pool</i>) that cools to become a strong joint, with pressure sometimes used in conjunction with heat, or by itself, to produce the weld.
Flux.	a chemical cleaning agent; fluxes facilitate soldering, brazing, and welding by removing oxidation from the metals to be joined

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Welding electrode	Electrical conductor used to conduct current through a workpiece to fuse two pieces together
Consumable electrodes	Electrodes used in gas metal arc welding or shielded metal
Non-consumable electrodes	Electrodes used in gas tungsten arc welding

B23K35/001

Insert: New definition

Definition statement

This subclass/group covers:

Transition pieces for metallurgical bonding of workpieces

Special rules of classification within this group

If a composition is given it should also be classified in the relevant groups under [C22C](#). For example, a process for producing composite body consisting of soldering at least a part of a high-temperature-resistant, metallic or nonmetallic component and at least a part of a high-temperature-resistant, nonmetallic component, where prior to soldering, a metallic barrier layer, which is impervious to the solder melt, of one or more elements selected from the group consisting of V, Nb, Ta, Cr, Mo, W, Ti, Zr, Hf and alloys thereof, is deposited on that surface of each nonmetallic component which is to be soldered will be classified in [B23K35/005](#), [B23K35/001](#). Documents should also be considered for classification in the following fields: soldering methods [B23K1/19](#); layered products [B32B7/04](#), [B32B18/00](#); ceramics [C04B37/003](#), [C04B37/026](#); alloys [C22C14/00](#), [C22C16/00](#).

B23K35/02

Insert: New definition

Definition statement

This subclass/group covers:

Rods, electrodes, materials for use in soldering, welding, or cutting characterized by mechanical feature

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Informative references

Attention is drawn to the following places, which may be of interest for search:

Powder metallurgy	B22F
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Special rules of classification within this group

If a composition is given it should also be classified in the relevant groups under [C22C](#). For example, a bonding wire for semiconductor, comprising a core and an outer peripheral part formed of a conductive metal and the alloy thereof formed mainly of the same type of elements, respectively, and a diffusion layer and/or an intermetallic compound layer formed of the elements forming the core and the outer peripheral part disposed between the core and the outer peripheral part or comprising a core formed of a first metal having a conductivity or an alloy formed mainly of the first metal, an outer peripheral part formed of a second metal having a conductivity different from that of the first metal of the core or an alloy formed mainly of the second metal, and a diffusion layer and/or an intermetallic compound layer disposed between the core and the outer peripheral part (metals, alloy disclosed) will be classified in [B23K35/0272](#). Documents should also be considered for classification in the following fields: manufacture of wires otherwise than by rolling [B21C37/042](#); layered products [B32B15/018](#); semiconductors [H01L24/43](#), [H01L24/45](#); and the relevant groups for alloys in [C22C](#).

B23K35/22

Insert: New definition

Definition statement

This subclass/group covers:

Rods, electrodes, materials for use in soldering, welding, or cutting characterized by the composition or nature of the material, composition of soldering/brazing/welding materials

Relationship between large subject matter areas

Macromolecular compounds classified in [C08F](#), [C08G](#), [C09D](#).

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Special rules of classification within this group

[B23K35/34](#) takes precedence.

If a composition is given it should also be classified in the relevant groups under [C22C](#). For example, a mixture for applying a polymer, non-corrosive, electroconductive coating which can be shaped in a low-abrasive manner, to a base, method for producing a non-corrosive, viscoplastic coating on a base, said coating containing polymer and inorganic particles, and to an electroconductive coating containing polymer and inorganic particles will be classified in [B23K35/226](#). Documents should also be considered for classification in the following fields: inorganic substances /macromolecular as compounding ingredients [C08K5/0008](#), [C09D5/082](#), [C09D5/084](#), [C09D5/10](#), [C09D5/24](#); [H01B1/22](#) (use as a cable/conductor).

For example, a flux cored wire for welding duplex stainless steel consisting of, by mass% with respect to the mass of the wire as a whole, C: 0.001 to 0.1%, Si: 0.01 to 1.0%, Mn: 2.0 to 6.0%, Cr: 17.0 to 27.0%, Ni: 1.0 to 10.0%, Mo: 0.1 to 3.0%, Al: 0.002 to 0.05%, Mg: 0.0005 to 0.01%, Ti: 0.001 to 0.5%, and N: 0.10 to 0.30%, further limiting P to 0.03% or less and S to 0.01% or less, satisfying 0.73 Cr equivalents - Ni equivalents 4.0 and Ti(mass%) N(mass%) 0.0004, and having a balance of iron and unavoidable impurities will be classified in [B23K35/0266](#), [B23K35/3086](#), [B23K35/3053](#), [B23K35/308](#). Documents should be considered for classification in the following field: alloys [C22C38/22](#), [C22C38/38](#), [C22C38/40](#).

Similarly, a process of assembling two silicon carbide pieces by non-reactive, moderate refractory welding, comprises contacting the pieces with a non-reactive welding composition respectively a binary alloy formed, as mass percentages, from 56% to 70% silicon and 44% to 30% yttrium, and heating an assembly formed by the pieces and the composition to a sufficient temperature for melting the composition and to form a moderate refractory joint will be classified in [B23K35/327](#), [B23K35/025](#), [B23K35/24](#). Documents should be considered for classification purposes in the following fields: welding techniques [B23K1/19](#), [B23K1/20](#), [B23K1/0008](#), alloys [C22C28](#), ceramics [C04B37/006](#).

B23K35/36

Insert: New definition

Definition statement

This subclass/group covers:

Coatings, fluxes compositions, as well as soldering/brazing/welding materials conjoint with non-metallic compositions

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Relationship between large subject matter areas

Macromolecular compounds classified in C08F, C08G, C08K, C09D.

References relevant to classification in this group

This group does not cover:

selection of solderin or welding materials proper	B23K35/24
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Special rules of classification within this group

[B23K35/34](#) takes precedence.

If a composition is given it should also be classified in the relevant groups under [C22C](#). For example a cream solder comprising a nitrogen - containing base hydroborofluorate is included by 1×10^{-3} - 7×10^{-2} mol. to 100 gr. of flux for solder powder, the nitrogen-containing base being from e.g. propylamine, dipropylamine, allylamine, diallylamine, isobutyl-amine, sec-butylamine, tert-butylamine, etc and the cream solder being for Ag/Pd, Ag/Pt or Ag/Pd/Pt fired body or electrode and also includes a hydrofluorate, hydrochlorate, hydrobrcmate and/or hydroiodate will be classified in [B23K35/3617](#), [B23K35/3612](#), [B23K35/025](#), [B23K35/22](#), and will be circulated to organic chemistry field [C08](#).

Similarly, a stainless steel flux-cored welding wire for the welding of galvanized steel sheets where the sheath and the flux contain, as metal or alloying components and in a total amount based on the total mass of the wire, C: 0.01 to 0.05%, Si: 0.1 to 1.5%, Mn: 0.5 to 3%, Ni: 7 to 10% and Cr: 26 to 30% with the F value falling within the range of 30 to 50, that the flux contains, as slag formers, TiO₂: 3.8 to 6.8%, SiO₂: 1.8 to 3.2%, ZrO₂: 1.3% or below, and Al₂O₃: 0.5% or below, that the total amount of these slag formers and the other slag formers is 7.5 to 10.5%, that TiO₂ accounts for 50 to 65% of the total amount of all the slag formers, and that the balance of the sheath and the flux consists of Fe and unavoidable impurities will be classified in [B23K35/0266](#), [B23K35/308](#), [B23K35/362](#), [B23K35/368](#). Documents should also be considered for classification in the following fields: Welding techniques [B23K9/00](#); Alloys [C22C38/02](#), [C22C38/04](#), [C22C38/40A](#), [C22C18/04](#).

B23K35/38

Insert: New definition

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Definition statement*This subclass/group covers:*

Selection of media in soldering/welding

Special rules of classification within this group

If a composition is given it should also be classified in the relevant groups under [C22C](#). For example a perfluoro-heptaglyme, improved vapour-phase soldering fluid - prepares by perfluorination of heptaglyme and method of vapor-phase soldering employing perfluoroheptaglyme as vapor phase soldering fluid is classified in [B23K38/F](#), [B23K35/38](#).

B23K35/40Insert: New definition**Definition statement***This subclass/group covers:*

Processes of making soldering/welding wire/rods/electrodes

Informative references*Attention is drawn to the following places, which may be of interest for search:*

Applying liquids or other materials to surfaces	B05D
Powder metallurgy	B22F

Special rules of classification within this group

If a composition is given it should also be classified in the relevant groups under [C22C](#). For example a tungsten electrode (alloy composition disclosed) and its method of manufacture will be classified in [B23K35/402](#), [C22C1/04](#), [C22C27/04](#), [B23K9/24](#). Similarly, a seamless tube compound welding electrode made by filling of a pre-formed tube closed at the bottom with a mixt. consisting of several granulated materials such as flux, de-oxidisers, carbides, which are periodically compacted by means of a punch introduced from the top, following which the tube is size reduced by rolling and/or drawing, which also further compacts the filling will be classified in [B23K35/406](#), [B23K35/327](#), [B23K35/0272](#), [B23K35/302](#). Documents should be considered for classification purposes

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in the following fields: Manufacture of metal sheets, wire, rods, tubes or profiles, otherwise than by rolling [B21C](#).

B23P23/00

Insert:

References relevant to classification in this subgroup

This group does not cover:

Working by laser beam combined with other working of metal	B23K26/00
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B23P23/02

Insert: New definition

Definition statement

This subgroup covers:

Machine tools for performing different machining operations. This subgroup is directed to machines or apparatuses and their capabilities to perform different machining operations. Machining in its broadest sense is used to describe removal of material from a workpiece. Hence, welding is not machining. However, EDM is

References relevant to classification in this subgroup

This subgroup does not cover:

Lathes, e.g. capstan lathes	B23B
Combined horizontal boring and milling machines	B23B39/02

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B23P23/04

Insert: New definition

Definition statement

This subgroup covers:

This subgroup is directed to machines or apparatuses and their capabilities to perform both machining operations and other metal-working operations such as: welding, hardening, burnishing, bending, etc.

B23P23/06

Insert: New definition

Definition statement

This subgroup covers:

Metal-working plant comprising a number of associate machines or apparatus.
This subgroup is directed to the layout of the plant (factory) and/or the conveying between the different machines.

B27C7/00

Insert:

Definition statement

This group covers:

Wood-turning machines are devices for reducing sticks of wood to a desired form by means of rotary or non-rotary cutters brought into engagement with the circumference of the continuously-rotating stick or by means of rotary or non-rotary cutters revolving circumferentially around and in engagement with the stick or that portion of the stick to be reduced.

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B29D29/10

Delete: In the Definition statement section

Illustrative example of driving belts having a wedge-shaped cross-section

Insert:

An illustrative schematic example thereof is the following:

B29D30/02

Insert: In the Glossary of Terms section, after the first row

Solid Tyre:	a toroidally-shaped object, which is not pneumatic, being part of a vehicle wheel. In contraposition to a pneumatic tyre, the elastic support/reaction to the weight of the vehicle is given through means other than compressed air or gas. Typical examples: - the whole tyre body may be made of rubber or other materials; - it may be hollow and contain a foamy material; - it may be hollow and contain elastic elements, e.g. springs and the like; - I would consider an hypothetical tyre filled with a liquid rather a solid tyre than a pneumatic tyre, since the liquid is substantially incompressible, thus non-pneumatic.
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B60K6/00

Replace: The first paragraph under Special rules of classification with the following

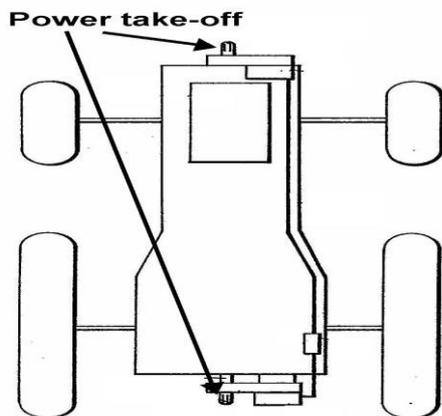
Multi-aspect classification practice is used in this group for hybrid vehicles. Whenever one or more specific aspects of subunits are concerned, classification should be given for each of the different subunit in [B60K 6/22](#) and a classification symbol should be added in the relevant place for the architecture [B60K 6/42](#) and also for the driveline architecture [B60K 6/50](#).

B60K17/28

Delete:

Special rules of classification within this group

Power take-off only for "extern" devices and not for other part of the vehicle like alternator, pump/fan for motor cooling. Example:



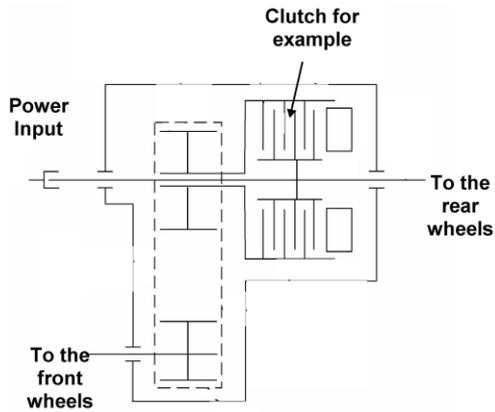
B60K17/3462

Delete: In the Definition statement section the following

Illustrative example of subject matter classified in this group:

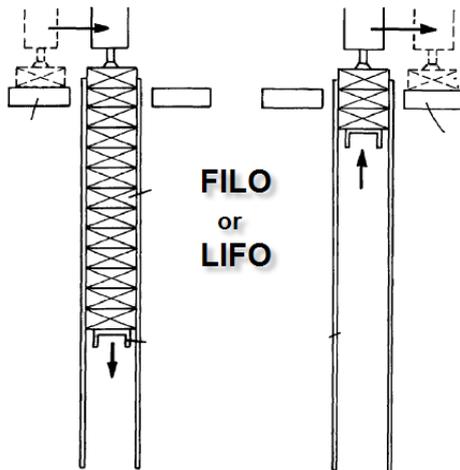
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B65G 47/515

Insert: Under the preamble in the Definition statement



B65G47/901

Insert: in the Definition statement after "This subclass/group covers:"

Drive system for the whole gripper (not for the gripping "fingers")

B66D

Insert: In the Definition statement after "... winches for dredges;"

braking or detent devices characterised by their application for retarding or preventing rotary movement of a winding drum or barrel

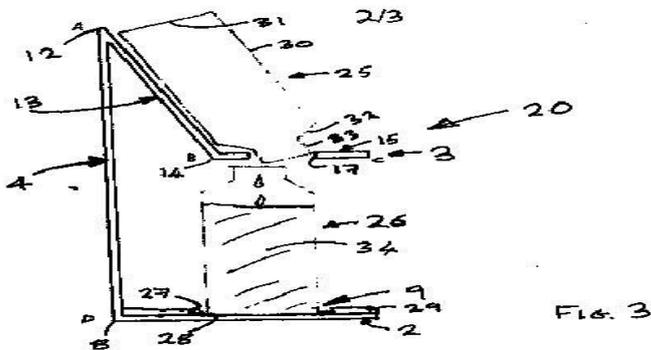
B67C9/00

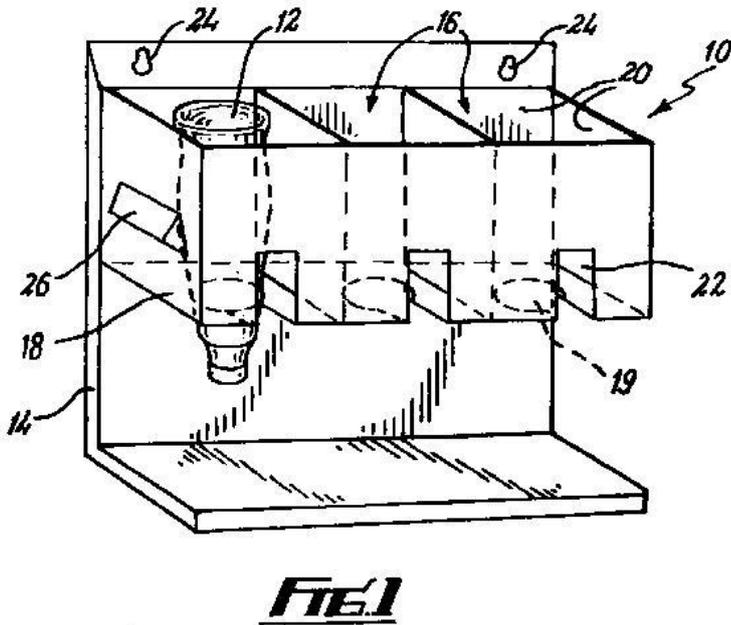
Delete: The Special rules of classification within this group section and the images

Insert:

Definition statement

This group covers:





C08B1/00

Delete: The last line under the Definition Statement

Pre

C08B9/00

Insert:

Glossary of terms

In this group, the following terms (or expressions) are used with the meaning indicated:

Viscose	A solution of cellulose xanthate made by treating a cellulose compound with sodium hydroxide and carbon disulfide
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C08B16/00

Insert: New definition

Definition statement

This group covers:

Methods for regenerating cellulose, e.g. from solution.

Regenerated cellulose as such.

C08B17/00

Insert: New definition

Definition statement

This group covers:

Apparatus and equipment for the preparation of cellulose ethers or cellulose esters, e.g. reactors, mixing devices, tubing, feeders, etc.

C08G

Insert: In the Synonyms and Keywords section, after the PET entry, the following

PPE	Polyphenylene ether
-----	---------------------

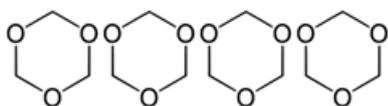
C08G2/00

Change: In the Definition Statement section, after “This group covers”, the five paragraphs to list items with bullets before the five list items

C08G2/12

Delete: In the Definition statement, all of the individual images

Insert:



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C08G4/00

Change: In the Definition Statement section, after “This group covers”, the two paragraphs to list items with bullets before the two lists

C08G 6/00

Change: In the Definition Statement section, after “This group covers”, the two paragraphs to list items with bullets before the three lists.

C08G8/00

Change: In the Definition Statement section, after “This group covers”, the paragraphs to list items with bullets before the lists

Delete: In the Glossary of terms section, the text in the right column for both terms

Insert: The following right-column text for each glossary term

Novolac resin	Phenol-formaldehyde resin where the molar ratio of formaldehyde to phenol of less than one, prepared in the presence of an acid catalyst
Resol resin	Phenol-formaldehyde resin where the formaldehyde to phenol ratio is greater than one, prepared in the presence of a base

C08G12/00

Change: In the Definition Statement section, after “For example”, the paragraphs to list items with bullets before the lists

C08G14/00

Change: In the Definition Statement section, after “for example”, the paragraphs to list items with bullets before the lists

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C08G18/00

Replace: In the Definition Statement section the paragraph after “This group covers:” with the following

- Polyurethanes, polyureas and isocyanurates, i.e. polymeric products of isocyanates or isothiocyanates and compounds that are reactive towards isocyanates or isothiocyanates and some processes specific for these polymers.

C08G18/02

Replace: In the Definition Statement section the paragraph after “This group covers:” with the following

- Polymerisation of isocyanates or isothiocyanates in the absence of compounds that are reactive towards isocyanate or isothiocyanate.

C08G18/08

Replace: In the References relevant section, the text in the left column of the table with the following

Working-up of polymeric products of isocyanates or isothiocyanates to foams	C08J9/00
---	----------

C08G18/09

Replace: In the References relevant section, the text in the first row of the left column of the table with the following

Polymerisation of isocyanates in the absence of compounds that are reactive towards isocyanate	C08G18/02
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C08G18/10

Replace: In the Definition Statement, the paragraph following “This group covers:” with the following

Prepolymer processes involving reaction of isocyanates or isothiocyanates with compounds having active hydrogen having a high molecular weight (more than 10 repeating monomer units or a molecular weight higher than 500) in a first reaction step

C08G18/63

Replace: In the Definition Statement, the paragraph following “This group covers:” with the following

What is known in industry as, “polymer polyols”: polymers containing active hydrogen (polyol) with particles prepared from polymerised carbon to carbon unsaturated monomers grafted onto the active hydrogen polymer or forming a block copolymer with the active hydrogen polymer.

The polymerised carbon to carbon unsaturated monomer particles are dispersed in the active hydrogen containing polymer (polyol) which is reactive towards isocyanate. The polymerised carbon to carbon unsaturated monomer particles themselves are therefore not reactive towards isocyanate.

C08G18/65

Replace: In the Definition Statement, the paragraph following “This group covers:” with the following

Mixtures of low molecular weight compounds having active hydrogen with high molecular weight compounds (more than 10 repeating monomer units or a molecular weight higher than 500) having active hydrogen where either the low molecular weight (less than 10 repeating monomer units or a molecular weight lower than 500) compound is essential for the invention or where the high molecular weight (more than 10 repeating monomer units or a molecular weight higher than 500) compound is not a compound of groups [C08G18/42](#), [C08G18/48](#) or [C08G18/52](#)

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C08G67/00

Change: In the Definition Statement section, after “This group covers”, the paragraphs to list items with bullets before the lists

C08G85/00

Insert:

Special rules of classification within this group

C08F is referred to in this group because there is no group under C08F corresponding to C08G85/00. So although it would in principle not appear correct to classify here post- or after-treatment of such polymers (C08F), which have not already been classified elsewhere, a place must in practice be found here for such documents.

D06F35/008

Delete: The entire References relevant section

Insert:

Special rules of classification within this group

Methods for disinfecting the clothes or the washing fluid should not be classified here.

D06F58/263

Delete: In the Definition statement

Laundry driers having gas heating devices.

Insert:

Illustrative example of subject matter classified in this group:

E01B17/00

Modify: In the Definition statement, change “staying” to “straying”

E01C1/00

Insert: In the References relevant table after the last row

Speed bumps	E01F9/047
Ventilation of tunnels	E21F1/00

E01C3/00

Insert:

Relationship between large subject matter areas

E01C3/02 is not used: Concrete base for bituminous paving made in situ is usually classified in E01C7/32 and in the relevant sub-groups of E01C7/08.

F01D5/028

Replace: The Definition statement with the following

Rotor discs which are made by stacking several sheets of metallic or composite plate like elements together and attaching them to each other, e.g. by gluing or clamping in order to form a single rotor disk or a stacked rotor assembly

Replace: In the Informative References table, the text in the left column with the following text

Rotor blade aggregates of unitary construction such as bladed disks (BLISKS) or other integrally manufactured rotor and disc arrangements, e.g. machined from a billet, manufactured by composite materials or manufactured individually and finally	F01D5/34
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joined to a non separable unit, e.g. by friction welding	
--	--

F01D5/186

Delete: The Synonyms and Keywords section

Insert:

Glossary of Terms

In this subgroup, the following terms or expressions are used with the meaning indicated:

Shower head (cooling)	ditto
Film cooling	expression used in order to describe the cooling technology used in order to cool a blade with an external layer of coolant

G01N21/84

Insert: New definition

Definition statement

This group covers:

Spectroscopy and optical systems and methods as defined in the appended groups. The intended use determines apparatus or method details making up the invention, such as those related to measurements in industrial or agricultural environments.

Relationship between large subject matter areas

[G01N21/84](#) and subgroups represent an application-oriented classification approach to the spectroscopical techniques ranging from the infrared to the ultraviolet in [G01N21/00](#) to [G01N21/83](#).

Informative references

Attention is drawn to the following places, which may be of interest for search:

Sorting according to opt. properties	B07C5/342
Testing dynamic or balance of machines or structures	G01M
Image processing	G06T

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Special rules of classification within this group

Optical and spectroscopic determination of properties, e.g. presence or absence of determined substances or elements, of particular objects, liquids and gases are classified in groups ranging from [G01N21/84](#) to [G01N21/87](#).

Optical inspection of defects and contaminants in manufactured products in general, i.e. deviations from the production standards are classified in [G01N21/88](#) to [G01N21/958](#).

An exception is made with respect to the measurement of coatings, in which even those inventions directed to the detection of flaws receive also the [G01N21/8422](#) class.

G01N21/8422

Insert: New definition

Definition statement

This group covers:

Systems and methods for the optical measurement of properties of thin films, coatings and multilayers, such as e.g. wear of thermal barrier coatings by detecting fluorescence from embedded labels.

References relevant to classification in this group

This group does not cover:

Thickness measurement of coatings	G01B11/0616
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Investigating resistance to wear	G01N3/56
Analysis of materials by ellipsometry	G01N21/2111

DATE: MARCH 1, 2015

PROJECT: DP0051

G01N21/8483

Insert: New definition

Definition statement

This group covers:

Systems and methods in which the condition of a sample is optically determined by detection of changes of reagent present on a substrate such as a test strip with e.g. reagent pads, or a reagent band.

References relevant to classification in this group

This group does not cover:

Test elements <i>per se</i> in	B01L
Details of e.g. test-element handling, dispensing and storage , not specific to a particular test method	G01N33/4875
Test elements involving biospecific methods for chemical analysis of biological material	G01N33/54386
Details of conveyer system for automatic analysis not limited to methods or materials provided in groups G01N1/00 to G01N33/00 , e.g. for autometers using reagent band	G01N35/04

Informative references

Attention is drawn to the following places, which may be of interest for search:

Taking blood samples percutaneously, e.g. lancet	A61B5/1411
Sample transported and stored in absorbent	B01L3/00C6A
Measurement of colour	G01J3/46
Details of colorimeters	G01N21/255
Automatic analysis with flat sample substrates	G01N35/00029
Medical informatics	G06F19/00M
Miscellaneous aspects of diffuse reflection measurement applied to analytical test strips	S01N21/483C
Systems in which sample is subject to chemical reaction with use of dipsticks or test strips	G01N2021/7759

G01N21/85

Insert: New definition

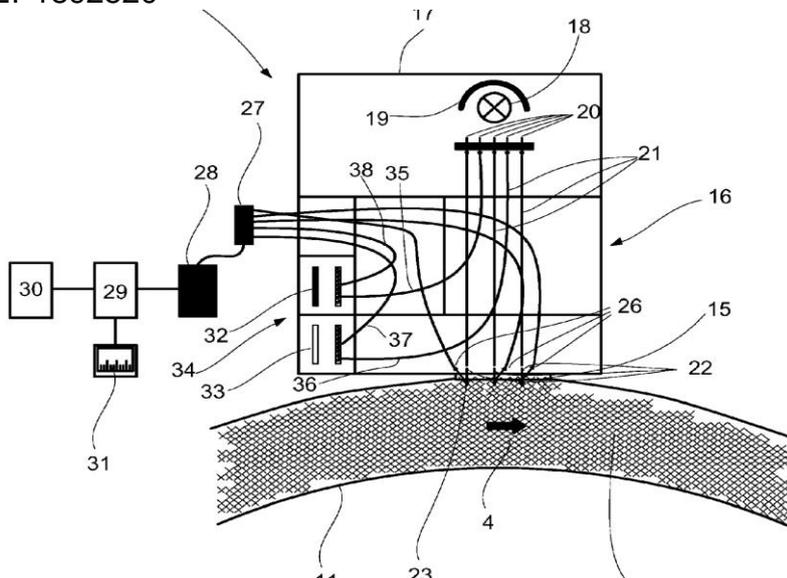
Definition statement

This group covers:

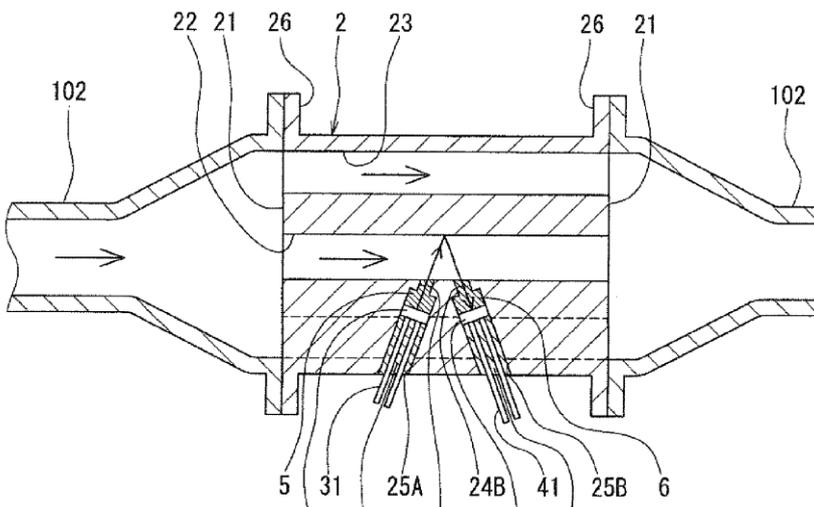
Systems especially adapted for measuring spectral properties and contaminants of solids such as grains, ore, flour, etc., gases such as fuels, and liquids like e.g. water. The target material is moving, flowing, falling e.g. on conveyers, in chutes, ducts, pipelines, etc.

Illustrative examples of subject matter classified in this group.

EP1892520



US2008282779



DATE: MARCH 1, 2015

PROJECT: DP0051

References relevant to classification in this group

This group does not cover:

Sorting granular material according to optical props.	B07C5/34227
Flow cytometry	G01N15/14
Contamination in the liquid content of containers, e.g. bottles	G01N21/9027
Investigation of beverages, fuel, water, etc. by other methods not covered in the groups G01N1/00-G01N31/00	G01N33/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Accessories for mixers: measuring colour of mixtures	B01F15/00207
--	------------------------------

G01N21/8507

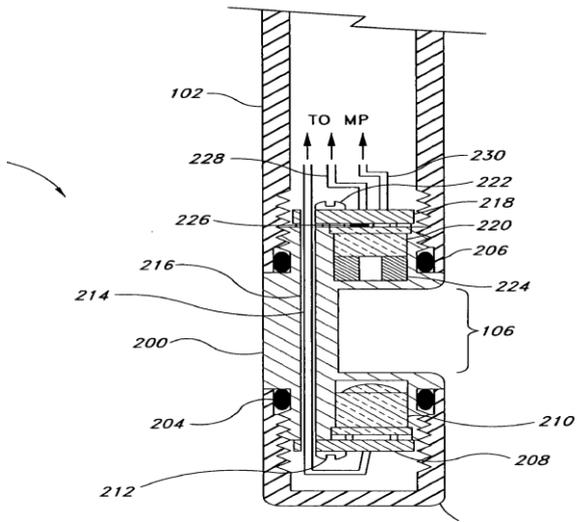
Insert: New definition

Definition statement

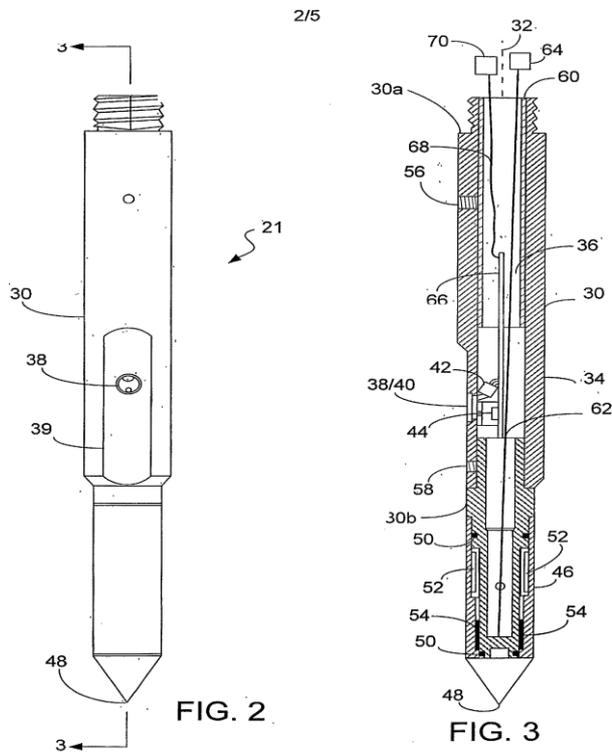
This group covers:

Inventions in which optical and constructional details are specifically adapted to enable the device penetration in the medium to be measured.

Illustrative examples of subject matter classified in this group.
US2005264816



WO2005003728



References relevant to classification in this group

This group does not cover:

Testing borehole walls	E21B49/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Immersion refractometers, e.g. with dipped optical fibre	G01N21/431
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PROJECT: DP0051

G01N21/86Insert: New definition**Definition statement***This group covers:*

Systems and methods in which properties are optically probed, such as e.g. moisture content by infrared detection in conveyed paper sheet.

References relevant to classification in this group*This group does not cover:*

Investigating moving reagent band	G01N21/8483
Investigating the presence of flaws or contamination in moving material, e.g. paper web	G01N21/89

Informative references*Attention is drawn to the following places, which may be of interest for search:*

Indicating moisture content of paper	D21G9/0009
Determination of moisture with infrared light	G01N21/3554

G01N21/87Insert: New definition**References relevant to classification in this subclass/group***This group does not cover:*

Investigating the presence of flaws or contamination	G01N21/88
--	---------------------------

Informative references*Attention is drawn to the following places, which may be of interest for search:*

Settings for holding gems	A44C17/02
Investigation of gemstones, pearls, etc. by methods not covered by previous groups	G01N33/381

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Special rules of classification within this group

Precedence rule in group title is obsolete

G01N21/88Insert: New definition**Definition statement***This group covers:*

Systems for monitoring and detecting the presence of defects and contamination.

References relevant to classification in this group*This group does not cover:*

Determination of dimensions, roughness, curvature	G01B11/00
Testing machines and apparatus	G01M

G01N21/8803Insert: New definition**Definition statement***This group covers:*

Inventions in which visual inspection of human operator is foreseen. Detection of the light primarily effected by the human eye.

References relevant to classification in this group*This group does not cover:*

Measuring instruments characterised by optical measuring means	G01B9/00
Optical projection comparators	G01B9/08

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G01N21/8806Insert: New definition**References relevant to classification in this group***This group does not cover:*

Optical details, scanning details in moving materials	G01N21/8901
---	-----------------------------

G01N21/89Insert: New definition**Definition statement***This group covers:*

Optical inspection of running yarn, fabric, web such as paper, cardboard, plastic film, etc. Other continuously or quasi-continuously cast raw material such as wood, metal, glass, etc. are also considered within this group and its sub-groups.

References relevant to classification in this group*This group does not cover:*

Inspecting a container or its contents	G01N21/90
Inspecting the exterior surface of ropes, wires, etc.	G01N21/952

Informative references*Attention is drawn to the following places, which may be of interest for search:*

Warning of web breakage in running webs	B65H26/025
Paper-making control systems	D21G9/0009
Investigating paper	G01N33/34

Special rules of classification within this groupPrecedence rules in group title regarding [G01N21/91](#) and [G01N21/94](#) are obsolete.

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G01N21/8901Insert: New definition**References relevant to classification in this group***This group does not cover:*

Scanning details per se	G02B
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G01N21/8915Insert: New definition**Definition statement***This group covers:*

Optical inspection of yarn, fibre, thread, etc.

References relevant to classification in this group*This group does not cover:*

Measuring diameters with photoelectric sensors	G01B11/105
--	----------------------------

Informative references*Attention is drawn to the following places, which may be of interest for search:*

Warning devices for yarn pre-treatment: detection and removal of impurities	D01G31/003
Spinning or twisting machines: warning of irregularities in running material	D01H13/22
Arrangements facilitating the inspection of yarns	D01H13/26
Inspecting the exterior surface of cylindrical bodies or wires	G01N21/952
Analysis of filiform textiles by specific methods not covered by the groups G01N1/00 to G01N31/00	G01N33/365

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G01N21/8916

Insert:

Informative references

Attention is drawn to the following places, which may be of interest for search:

Noise or error suppression during scan of photo-films	H04N1/58
---	--------------------------

G01N21/894

Pinholes

Definition statement

This group covers:

Inventions for detecting the presence of minute through holes (pinholes) in the materials under inspection. Pinholes are considered as defects, thus inventions for inspecting the quality of holes or of arrays of holes are not classified here.

References relevant to classification in this group

This group does not cover:

Defects in coatings	G01N21/8422
Inspection of patterns showing hole parts	G01N21/95692
Defects in wafers	G01N21/9501

G01N21/896

Insert: New definition

Definition statement

This group covers:

Inventions dealing with the inspection for optically detectable defects in transparent material, such as running glass or plastic sheet, rod, etc.

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References relevant to classification in this group*This group does not cover:*

Inspection of defects in transparent objects characterised by having particular external shapes or which are not continuously or quasi-continuously cast	G01N21/958
Inspection of transparent containers	G01N21/90

Informative references*Attention is drawn to the following places, which may be of interest for search:*

Conveyers for fragile sheets, e.g. glass	B65G49/06
Measuring stress by optical means	G01L1/24

G01N21/898Insert: New definition**References relevant to classification in this group***This group does not cover:*

Devices for scanning printed matter for quality control	B41F33/0036
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G01N21/8983Insert: New definition**References relevant to classification in this group***This group does not cover:*

Auxiliary apparatus combined or associated with looms	D03J1/00
Investigation of fabric or woven textiles by methods not covered by G01N1/00 to G01N31/00	G01N33/367

Informative references*Attention is drawn to the following places, which may be of interest for search:*

Inspection of textile materials	D06H3/00
---------------------------------	----------

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G01N21/90

Insert: New definition

Definition statement

This group covers:

Inventions for inspecting bottles, flasks, carafes, cups, phials, cans, jars, kegs, and other similar receptacles.

References relevant to classification in this group

This group does not cover:

Optical means for sorting bottles in accordance to size	B07C5/126
Sorting according to properties of containers	B07C5/3404
Measuring liquid level with light	G01F23/292
Inspection of the inner walls of tanks, cisterns, vessels, etc.	G01N21/954

Special rules of classification within this group

Precedence rule in group title is obsolete

If suitable classify the inventions additionally in Indexing Code [G01N2021/9063](#) (Hot-end container inspection).

Classify additionally in [G01N21/8851](#) the inventions which are characterised by special signal processing.

G01N21/9009

Insert: New definition

Definition statement

This group covers:

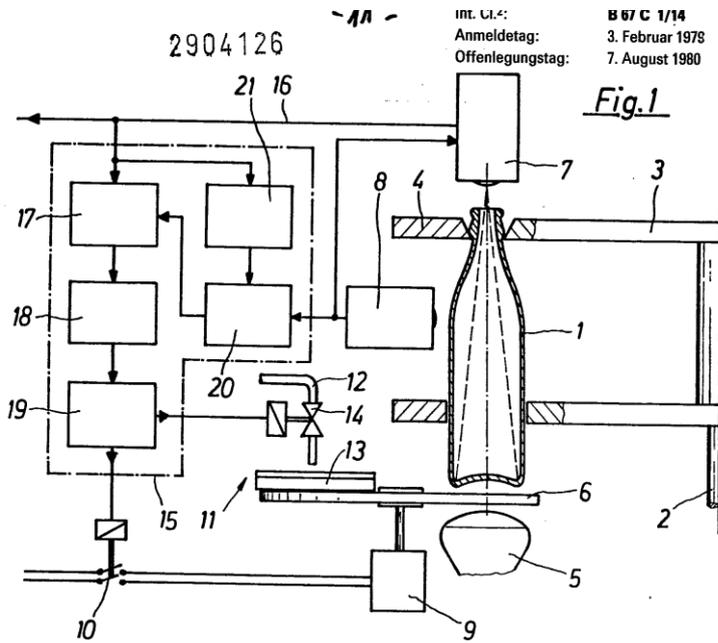
Inventions dealing with non-optical aspects of the optical inspection, such as protections from dirt (e.g. DE2904126, cover plate 6, wiper blade 13), mechanisms for container spacing or handling during inspection (e.g. DE3621976, clamping mechanism 2, 4), anti-vibration arrangements for the optics or the container manipulator (e.g. JP1224651, mounting of camera 6), etc.

Illustrative examples of subject matter classified in this group:

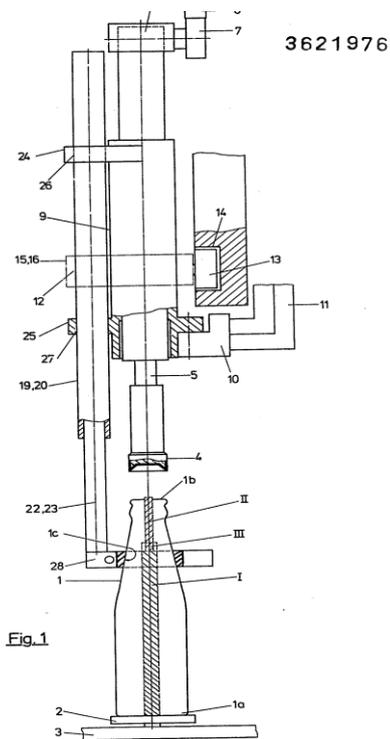
DATE: MARCH 1, 2015

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DE2904126



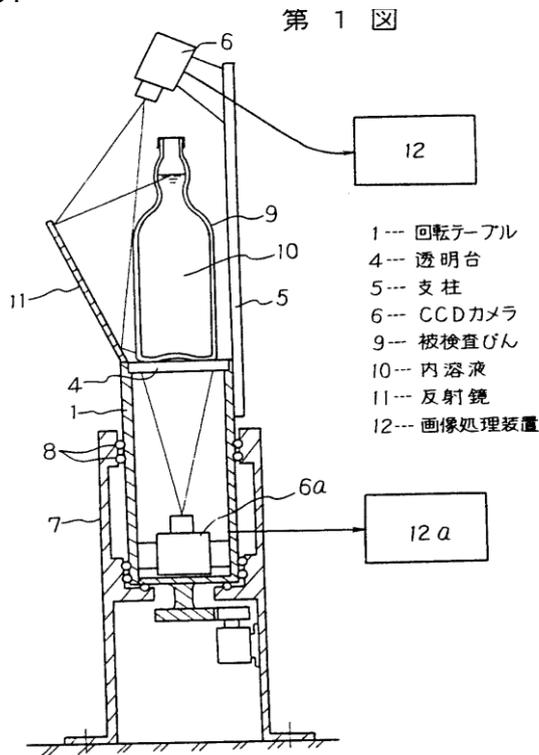
DE3621976



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JP1224651



G01N21/9036

Insert: New definition

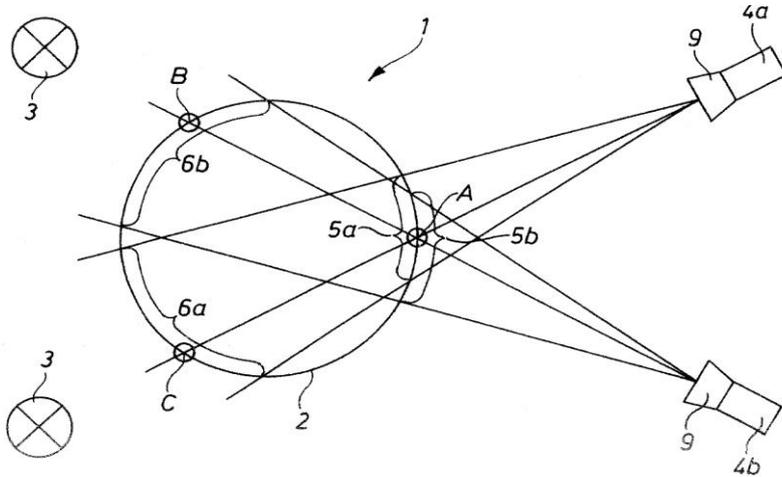
Definition statement

This group covers:

Inventions in which a plurality of emitters / receivers is employed in order to concurrently obtain views of a container portion from different perspectives. Inventions basing on the use of multiple detectors for providing views of different container portions are not classified here.

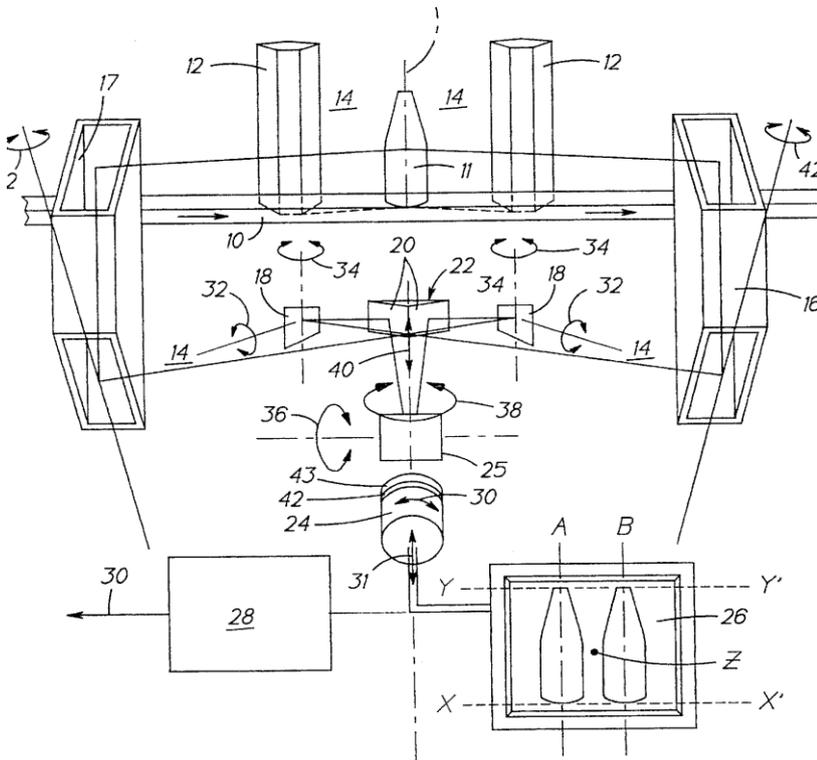
Illustrative examples of subject matter classified in this group:

WO2010/100026



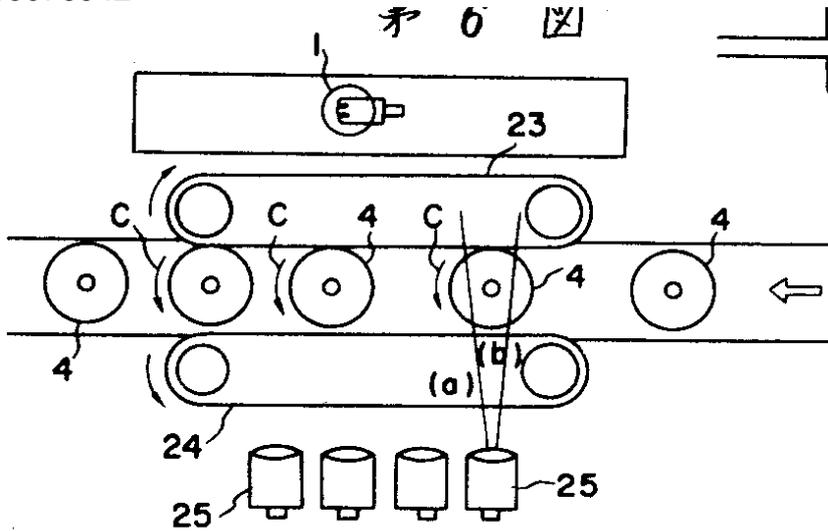
This applies also to inventions in which the plurality is formed by a single emitter/detector in combination with multiple reflectors to provide said multiplicity of perspectives (e.g. US5495330, reflectors 16, 17, 18, 20).

US5495330



This group also comprises inventions in which a multiplicity of detectors provides subsequent multiple views.

JP55076942



References relevant to classification in this group

This group does not cover:

Inspection of container finish and sealing surface	G01N21/9054
--	-------------

G01N21/9045

Insert: New definition

Definition statement

This group covers:

Inventions dealing with signals originating from embossing, ornaments, seams, or scratches affecting the container's surface. In some cases aiming the suppression of said signals in order to better detect flaws. In other cases with the objective of inspecting said signals for detecting defects in the embossing, ornaments, degree of scuffing etc.

References relevant to classification in this group

This group does not cover:

Inspection dealing with signals affected by the presence of threads at container finish	G01N21/9054
---	-------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

Detection of markings at container surface for orienting the container prior to labelling	B65C9/067
---	-----------

G01N21/9054

Insert: New definition

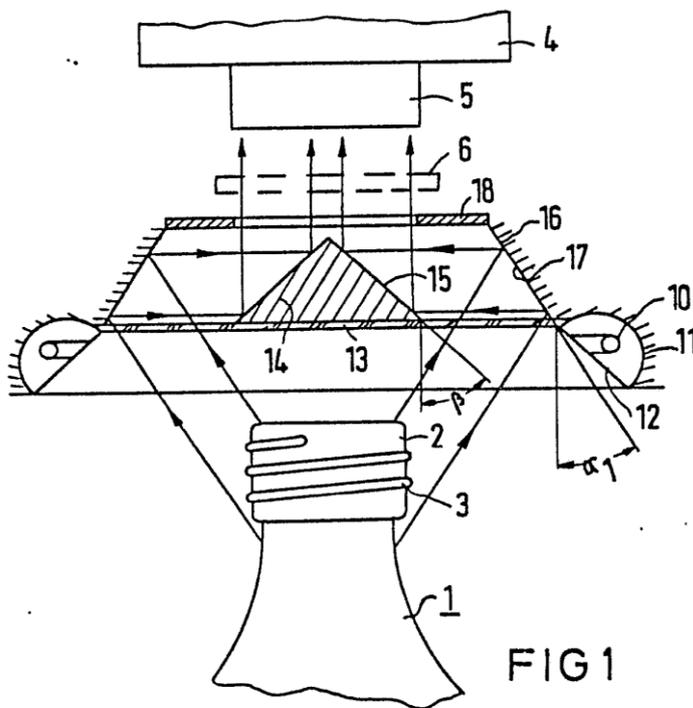
Definition statement

This group covers:

Inventions which focus on the inspection of the container finish such as mouth, sealing surface, thread, or parts in its proximity. Devices implementing standard or not specially detailed container finish inspection which is carried out together with inspection of other container parts such as the sidewall or the bottom should not be classified here.

Illustrative examples of subject matter classified in this group:

EP0047936



G01N21/9072

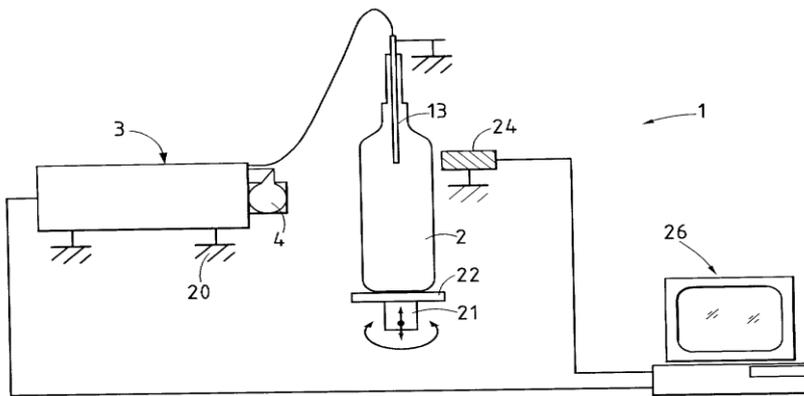
Insert: New definition

Definition statement

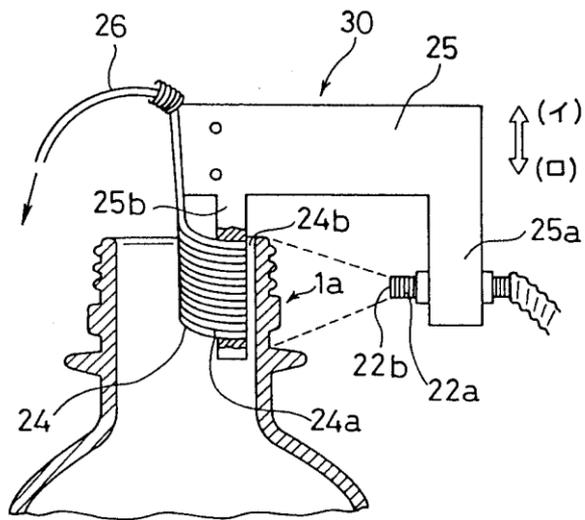
This group covers:

Illustrative examples of subject matter classified in this group:

EP0047936



JP2010141



第 3 図

G01N21/9081

Insert: New definition

Definition statement

This group covers:

Inventions which are specifically defined for the inspection of plastic containers. Inventions which indistinctly find application to plastic as well as to glass containers should not be classified here.

G01N21/909

Insert: New definition

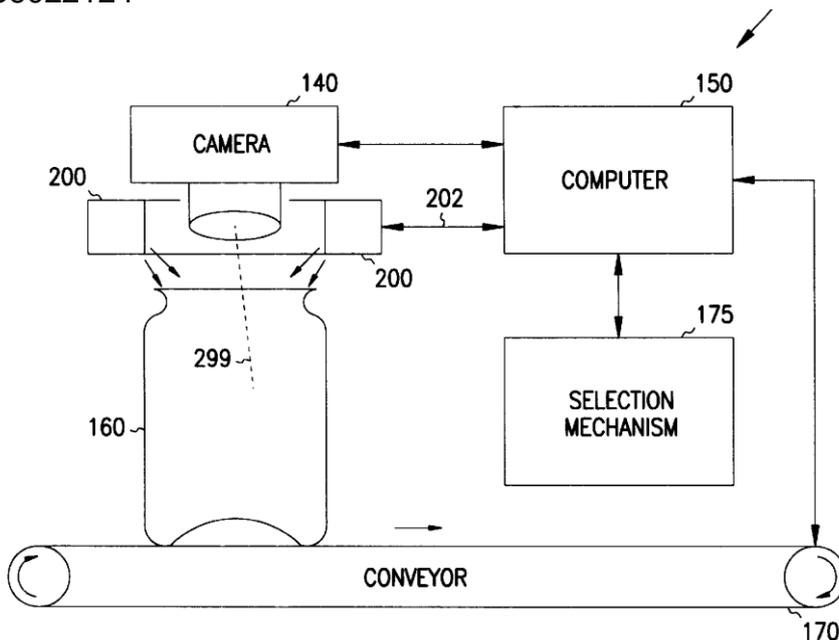
Definition statement

This group covers:

Inventions dealing with the inspection of containers which are not transparent to visible light (e.g. cans, US6022124). Inventions concerning the inspection of other opaque parts normally in connection with containers such as caps (e.g. WO03016886), corks (e.g. US2008180111), etc. are also classified here.

Illustrative examples of subject matter classified in this group:

US6022124



WO03016886

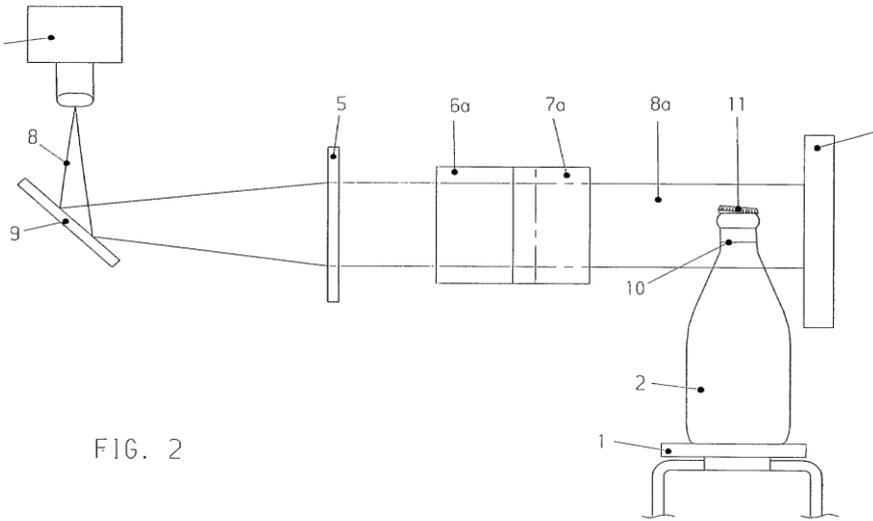
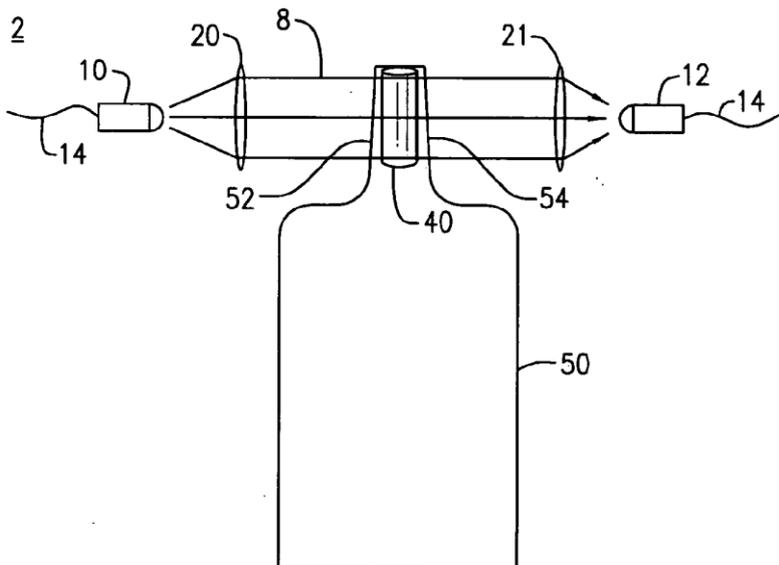


FIG. 2

US2008180111



G01N21/9501

Insert: New definition

Definition statement

This group covers:

Inventions dealing with the inspection of semiconducting wafer material.

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Relationship between large subject matter areas

Manufacturing processes per se of semiconductor devices implementing a measuring step are classified under [H01L21/66](#).

Informative references

Attention is drawn to the following places, which may be of interest for search:

Inspection of patterns on the surface of wafers	G01N21/956
---	----------------------------

G01N21/9508

Insert: New definition

Informative references

Attention is drawn to the following places, which may be of interest for search:

Presence, absence, abnormal feed, etc. in wrapped material (e.g. tablets in blister packages)	B65B57/10
Medicinal preparations	G01N33/15

G01N21/951

Insert: New definition

Definition statement

This group covers:

Inspection of objects presenting spherical or approximately spherical shape, such as golf balls, eggs, bearings, etc.

G01N21/9515

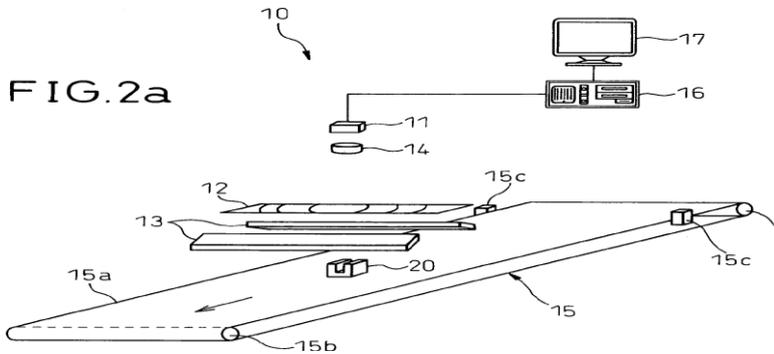
Insert: New definition

Definition statement

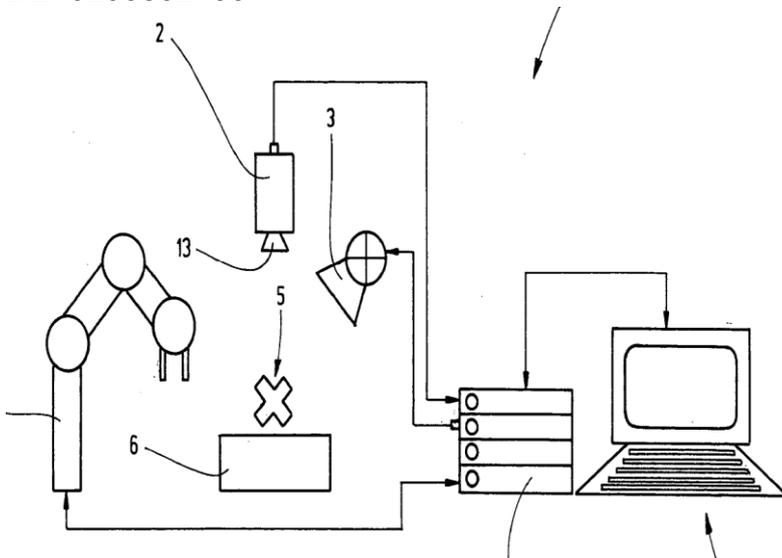
This group covers:

Examples of inventions covered by this group are given by the following documents:

US2009190824



DE102008027904



References relevant to classification in this group

This group does not cover:

Arrangements with optical means for measuring contours or curvatures	G01B11/24
--	-----------

G01N21/952

Insert: New definition

Definition statement

This group covers:

Inventions dealing with the inspection of the outer surface of cylindrical and other elongated objects presenting some kind of axial symmetry, such as e.g. cables, pipes, cigarettes, beams, bobbins, etc.

References relevant to classification in this group

This group does not cover:

Inspection of non-woven textile material, e.g. yarn	G01N21/8915
Inspection of continuous or quasi-continuous rods of material transparent to visible light	G01N21/896
Inspection of cylindrical articles transparent to visible light	G01N21/958

Informative references

Attention is drawn to the following places, which may be of interest for search:

Examination of cigarettes by light	A24C5/3412
Checking, lubricating, or cleaning of ropes and cables in lifts in or associated with buildings	B66B7/12

Special rules of classification within this group

Precedence rule in group title is obsolete

G01N21/954

Insert: New definition

Definition statement

This group covers:

Inventions for inspecting general inner surfaces, such as those of tanks, cisterns, pipes, etc. but also of other bodies presenting bores and hollow parts such as nuts, tyres, etc. Illustrative examples of subject matter classified in this group:

WO2010005399

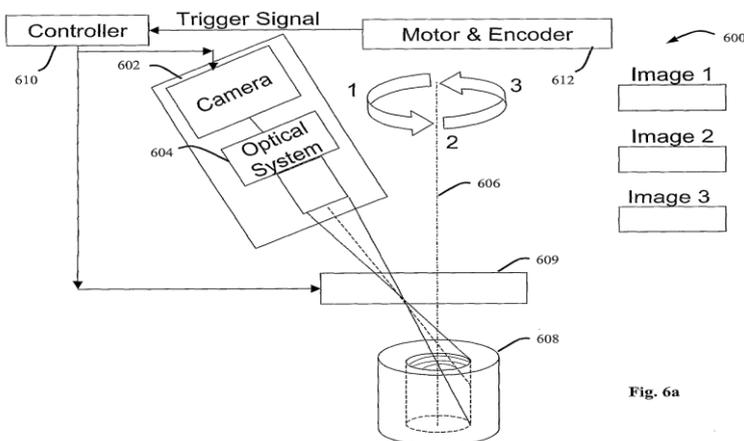
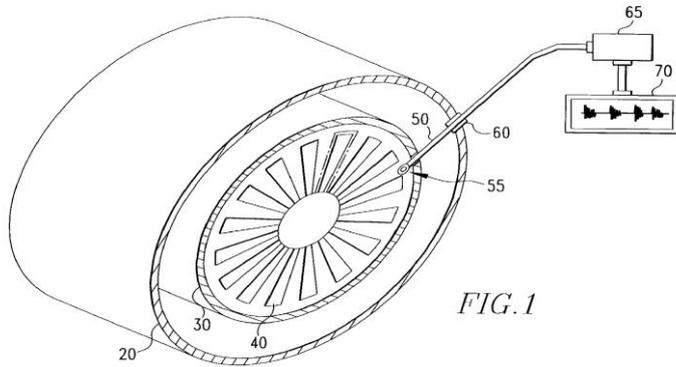
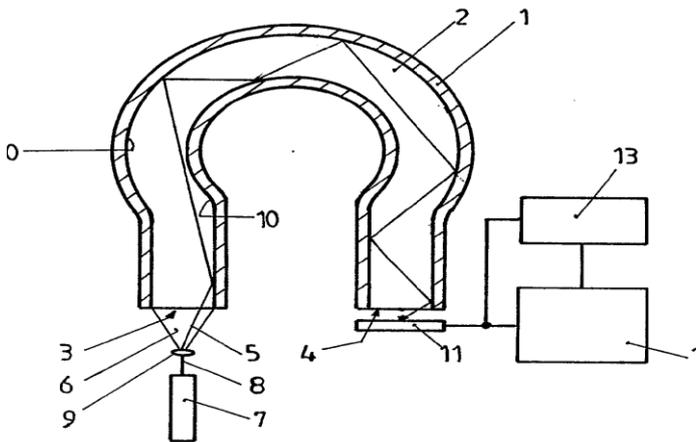


Fig. 6a

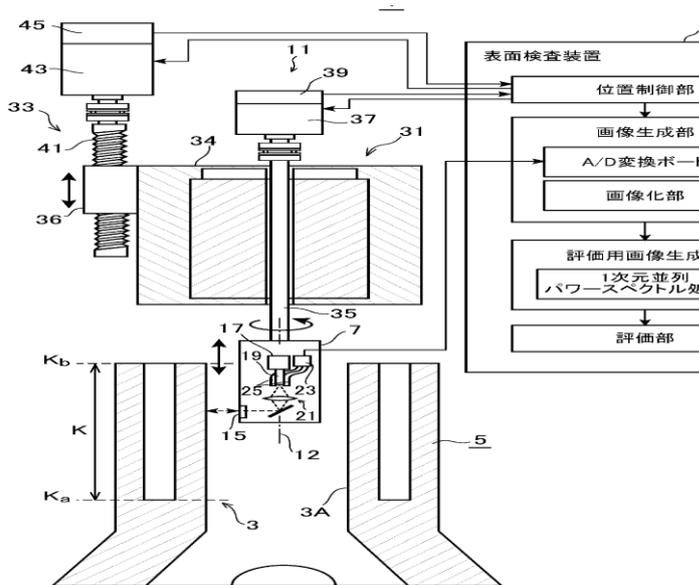
US2003127602



DE19702851



WO2010134232



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References relevant to classification in this group*This group does not cover:*

Endoscopes for medical examination of cavities in human or animal bodies	A61B1/00
Inspection of the inner surface of opaque containers such as beverage cans	G01N21/909

Informative references*Attention is drawn to the following places, which may be of interest for search:*

Installations enabling inspection along sewer canals	E03F7/12
Devices for use in connection with pipes: pigs or moles	F16L55/26
Investigating fluid tightness using light	G01M3/38
Probe photometers	G01N21/8507
Investigating flaws using eddy currents: scanning moving sensors	G01N27/902
Ultrasonic analysers: details moving the sensor	G01N29/265
Inventions relying on specific optical aspects	G02B23/24
Inspection of the inner surface of nuclear reactors	G21C17/01

G01N21/956Insert: New definition**References relevant to classification in this group***This group does not cover:*

Arrangements for contactless testing of electric properties by using electromagnetic radiation, e.g. optical radiation	G01R31/308
Layout analysis of integrated circuits	G06F17/5081
Testing of coins or of paper currency	G07D
Monitoring assemblage of electrical components	H05K13/08

Informative references*Attention is drawn to the following places, which may be of interest for search:*

Metrology of e.g. coating, critical dimensions (CD), etc.	G01B11/00
Investigating materials by ellipsometry	G01N21/211
Production and inspection of photochemically patterned surfaces	G03F1/0092
Testing photolithography apparatus	G03F7/20T22

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G01N21/95684

Insert: New definition

Definition statement

This group covers:

For instance, inventions dealing with the inspection of strip conductors and tracks in printed circuit boards, soldering bumps, etc.

Special rules of classification within this group

Precedence rule in group title is obsolete.

G01N21/95692

Insert: New definition

References relevant to classification in this group

This group does not cover:

Testing fluid tightness by using light	G01M3/38
Investigating permeability of porous materials	G01N15/08

Special rules of classification within this group

Precedence rule in group title is obsolete.

G01N21/958

Insert: New definition

Definition statement

This group covers:

Inventions dedicated to the inspection of articles transparent to visible light.

Relationship between large subject matter areas

The inspection under [G01N21/958](#) aims the detection of flaws of transparent objects by optical means. Testing the optical properties of lenses falls under [G01M11/02](#).

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References relevant to classification in this group*This group does not cover:*

Optical defects in or on continuously or quasi-continuously cast transparent material	G01N21/896
Inspection of transparent containers	G01N21/90

Informative references*Attention is drawn to the following places, which may be of interest for search:*

Testing of optical properties of lenses for detecting defects by measuring geometrical properties or aberrations	G01M11/0278
--	-----------------------------

Special rules of classification within this groupClassify if suitable also in Indexing Code [S01N21/881F2](#)**G01N 33/586**Delete: In the Special Rules section, the second paragraph

The detection or use of novel nanoparticles. 'Nanoparticles' includes nanostructures such as nanotubes, fullerenes (buckyballs), graphene structures.

G01N 33/587Insert:**Definition statement***This subgroup covers:*

The detection or use of novel nanoparticles. "Nanoparticles" includes nanostructures such as nanotubes, fullerenes (buckyballs), graphene structures.

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G06K13/00

Insert:

Definition statement

Arrangements for moving data carriers, such a smart cards, into and out of a data carrier reader device

G06K 19/083

Delete: In the Definition statement section

G06L19/08C2

Insert:

G06L19/086

G06K19/10

Insert: In the Definition statement, before “Examples”, the following

Record carriers that comprise a first type and a different second type of digital marking wherein one of these digital markings is particularly suited for authenticating the record carrier.

G07F

Replace: The table in the References relevant section with the following table

Payment architectures, schemes or protocols	G06Q20/00
Handling coins or paper currencies apart from payment activated apparatus	G07D
Coin sorting	G07D3/00
Coin testing	G07D5/00

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G07F3/00

Replace: In the Special rules section, the second sentence “This class should...in G07D5/00” with the following.

This group should not be used anymore as its contents and pertinent documents should be reclassified in G07D5/00.

G07F17/32

Delete: Under the definition title, References relevant to classification in this group and Special rules of classification within this group

Insert:

Definition statement

This group covers:

Gaming systems, or aspects thereof, which provide a financial reward, such as gambling, (Internet) betting and casino games. These aspects may relate to hardware, software, data processing, payments, security and game play specifics within the field of gaming systems providing financial rewards.

References relevant to classification in this group

This group does not cover:

Playing without coin collecting means	A63
Toys	A63H
Traditional board, card or dice games without financial reward	A63F1/00 - A63F11/00
Video games without providing a financial reward	A63F13/00
Random number generators per se	G07C15/00

Special rules of classification within this group

A document concerning a gaming system which provides a financial reward must always be classified in at least one of the classes [G0F17/32](#) to [G07F17/42](#) according to the functional feature(s) it discloses.

Furthermore, one or more of the classes [G07F17/32](#) to [G07F17/42](#) may optionally be assigned regarding the type of game that the document discloses.

G07F17/34

Insert: New definition

Definition statement

This group covers:

Mechanical slot machines

Special rules of classification within this group

A document concerning a mechanical slot machine must additionally be classified in at least one of the classes [G0F17/32](#) to [G07F17/42](#) according to the functional feature(s) it discloses.

G09F13/00

Insert: As the last paragraph in the Special rules section

[G09F13/48](#) contains illuminated signs including an illumination control system (timers, etc.).