## CPC  COOPERATIVE PATENT CLASSIFICATION

### A  HUMAN NECESSITIES

#### HEALTH; AMUSEMENT

### A61  MEDICAL OR VETERINARY SCIENCE; HYGIENE

#### A61N  ELECTROTHERAPY; MAGNETOTHERAPY; RADIATION THERAPY; ULTRASOUND THERAPY (measurement of bioelectric currents A61B; surgical instruments, devices or methods for transferring non-mechanical forms of energy to or from the body A61B 18/00; anaesthetic apparatus in general A61M; incandescent lamps H01K; infra-red radiators for heating H05B)

**NOTE**

In this subclass, the following term is used with the meaning indicated: In this subclass, the following term is used with the meaning indicated:

- “therapy” implies that the treatment, when it aims at destroying sick or abnormal cells, is performed within the limits of healthy cell life, the destruction thereof being undesired, contrary to that which takes place with instruments, devices or methods covered by group A61B 18/00.

**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:

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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.

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### 1/00 Electrotherapy; Circuits therefor (A61N 2/00 takes precedence; irradiation apparatus A61N 5/00)

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<td>0472</td>
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<tr>
<td>0476</td>
<td>{Array electrodes (including any electrode arrangement with more than one electrode for at least one of the polarities)}</td>
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<td>048</td>
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<td>{Patch electrodes (A61N 1/0412, A61N 1/0428 take precedence)}</td>
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<td>0496</td>
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<tr>
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A61N

1/0507 . . . . [Electrodes for the digestive system]
1/0509 . . . . [Stomach and intestinal electrodes]
1/0512 . . . . [Anal electrodes]
1/0514 . . . . [Electrodes for the urinary tract]
1/0517 . . . . [Esophageal electrodes]
1/0519 . . . . [Endotracheal electrodes]
1/0521 . . . . [Genital electrodes]
1/0524 . . . . [Vaginal electrodes]
1/0526 . . . . [Head electrodes (A61N 1/0551 takes precedence)]
1/0529 . . . . [Electrodes for brain stimulation]
1/0531 . . . . [Brain cortex electrodes]
1/0534 . . . . [Electrodes for deep brain stimulation]
1/0536 . . . . [Preventing neurodegenerative response or inflammatory reaction]
1/0539 . . . . [Anchoring of brain electrode systems, e.g. within burr hole]
1/0541 . . . . [Cochlear electrodes]
1/0543 . . . . [Retinal electrodes]
1/0546 . . . . [Nasal electrodes]
1/0548 . . . . [Oral electrodes]
1/0551 . . . . [Spinal or peripheral nerve electrodes]
1/0553 . . . . [Paddle shaped electrodes, e.g. for laminotomy]
1/0556 . . . . [Cuff electrodes]
1/0558 . . . . [Anchoring or fixation means therefor]
1/056 . . . . [Transvascular endocardial electrode systems]
1/0563 . . . . [specially adapted for defibrillation or cardioversion]
1/0565 . . . . [Electrode heads]
1/0568 . . . . [with drug delivery]
1/057 . . . . [Anchoring means; Means for fixing the head inside the heart]
1/0573 . . . . [characterised by means penetrating the heart tissue, e.g. helix needle or hook]
1/0575 . . . . [with drug delivery]
2001/0578 . . . . [having means for removal or extraction]
2001/058 . . . . [Fixing tools]
2001/0582 . . . . [Suture sleeves]
2001/0585 . . . . [Coronary sinus electrodes]
1/0587 . . . . [Epicardial electrode systems; Endocardial electrodes piercing the pericardium]
1/059 . . . . [Anchoring means]
1/0592 . . . . [Introducing the lead through the pericardium with a needle]
1/0595 . . . . [Temporary leads]
1/0597 . . . . [Surface area electrodes, e.g. cardiac harness]
1/06 . . . . for high-frequency therapy

1/08 . . . . Arrangements or circuits for monitoring, protecting, controlling or indicating [(for external stimulators A61N 1/3603; for implanta
table neurostimulators A61N 1/36128; for heart stimulators A61N 1/37; for defibrillators A61N 1/3925)]

**WARNING**

Group A61N 1/08 is impacted by reclassification into group A61N 1/3603.
Groups A61N 1/08 and A61N 1/3603 should be considered in order to perform a complete search.

2001/083 . . . . [Monitoring integrity of contacts, e.g. by impedance measurement]

**WARNING**

Group A61N 2001/083 is impacted by reclassification into group A61N 1/3603.
Groups A61N 2001/083 and A61N 1/3603 should be considered in order to perform a complete search.

1/086 . . . . [Magnetic resonance imaging [MRI] compatible leads]
1/10 . . . . Applying static electricity (applying ionised gases or vapours A61N 1/44)
1/14 . . . . Leading-off electric charges, e.g. by earthing (carrying-off electrostatic charges, in general H05F 3/00)]
1/16 . . . . Screening or neutralising undesirable influences from (or using,) atmospheric or terrestrial radiation or fields [(using atmospheric electricity or earth currents H05F 3/00)]
1/18 . . . . Applying electric currents by contact electrodes
1/20 . . . . continuous direct currents
1/205 . . . . [for promoting a biological process]
1/22 . . . . Electromedical belts {, e.g. neck chains, armbands}
1/24 . . . . with built-in power source
1/26 . . . . Electromedical brushes; Electromedical massage devices {([massage devices in general A61H]; Combs)}
1/28 . . . . Apparatus for applying thermolectric currents
1/30 . . . . Apparatus for iontophoresis, [i.e. transfer of media in ionic state by an electromotoric force into the body], or cataphoresis
1/303 . . . . {Constructional details (electrodes for external use A61N 1/0428)}
1/306 . . . . {Arrangements where at least part of the apparatus is introduced into the body}
1/32 . . . . alternating or intermittent currents [(applying electric fields by inductive or capacitive coupling A61N 1/40; microwave apparatus A61N 5/02)]
1/321 . . . . [Electromedical belts]
1/322 . . . . [Electromedical brushes, combs, massage devices]
1/323 . . . . [Interference currents, i.e. treatment by several currents summed in the body]
1/325 . . . . [for iontophoresis, i.e. transfer of media in ionic state by an electromotoric force into the body (electrodes for external use A61N 1/0428)]
1/326 . . . . [for promoting growth of cells, e.g. bone cells]
for enhancing the absorption properties of tissue, e.g. by electroporation

for improving the appearance of the skin, e.g. facial toning or wrinkle treatment

for stimulation

**WARNING**

Group A61N 1/36 is impacted by reclassification into group A61N 1/36002.

Groups A61N 1/36 and A61N 1/36002 should be considered in order to perform a complete search.

**WARNING**

Group A61N 1/3602 is incomplete pending reclassification of documents from group A61N 1/36.

Groups A61N 1/3602 and A61N 1/36 should be considered in order to perform a complete search.

**WARNING**

Group A61N 1/3603 is incomplete pending reclassification of documents from group A61N 1/3603.

Groups A61N 1/3603 and A61N 1/36031 should be considered in order to perform a complete search.

**WARNING**

Group A61N 1/3603 is incomplete pending reclassification of documents from group A61N 1/3603.

Groups A61N 1/36034 and A61N 1/36031 should be considered in order to perform a complete search.

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Group A61N 1/36031 is incomplete pending reclassification of documents from group A61N 1/3603.

Groups A61N 1/36031 and A61N 1/36034 should be considered in order to perform a complete search.

**WARNING**

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Group A61N 1/36033 is incomplete pending reclassification of documents from group A61N 1/3603.

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**WARNING**

Group A61N 1/36033 is incomplete pending reclassification of documents from group A61N 1/3603.

Groups A61N 1/36033 and A61N 1/36031 should be considered in order to perform a complete search.
Adapted for a particular treatment

Spinal stimulation

Spinal stimulation

Epilepsy

Movement disorders, e.g. tremor or Parkinson disease

Cognitive or psychiatric applications, e.g. dementia or Alzheimer's disease

Eating disorders or obesity

Addiction or withdrawal from substance abuse such as alcohol or drugs

Mental training

Mood disorders, e.g. depression, anxiety or panic disorder

Phantom sensations, e.g. tinnitus

Neuro-rehabilitation; Repair or reorganisation of neural tissue, e.g. after stroke

Sexual dysfunction

Respiration control

Cardiac control

[for treating hypertension]

[using physiological parameters]

[with automatic adjustment]

[based on impedance measurement]

[Voltage (A61N 1/3616 takes precedence)]

[Intensity]

[Voltage density or current density]

[Current (A61N 1/3616 takes precedence)]

[for improving safety]

[specified by the stimulation parameters]

[Relaxation (A61N 1/36002)]

[stimulating motor muscle A61N 1/36003)]

[stimulating the heart A61N 1/362)]

[Voltage density or current density]

[Production of neurotransmitters; Modulation of gene expression]

[Details of circuitry or electric components]

[using patient feedback]
WARNING

Group A61N 1/362 is impacted by reclassification into group A61N 1/3629. Groups A61N 1/362 and A61N 1/3629 should be considered in order to perform a complete search.

I/3621 . . . . . . . . . . . . . . . . . [for treating or preventing abnormally high heart rate]
I/3622 . . . . . . . . . . . . . . . . . [comprising two or more electrodes cooperating with different heart regions]
I/3624 . . . . . . . . . . . . . . . . . [occurring in the atrium, i.e. atrial tachycardia]
I/3625 . . . . . . . . . . . . . . . . . [External stimulators]
I/3627 . . . . . . . . . . . . . . . . . [for treating a mechanical deficiency of the heart, e.g. congestive heart failure or cardiomyopathy]
I/3628 . . . . . . . . . . . . . . . . . [using sub-threshold or non-excitatory signals]
I/3629 . . . . . . . . . . . . . . . . . [in combination with non-electric therapy]

WARNING

Group A61N 1/3629 is incomplete pending reclassification of documents from group A61N 1/362.
Groups A61N 1/3629 and A61N 1/362 should be considered in order to perform a complete search.

I/365 . . . . . . . . . . . . . . . . . controlled by a physiological parameter, e.g. heart potential { (evoked response A61N 1/371)}
I/36507 . . . . . . . . . . . . . . . . . [controlled by gradient or slope of the heart potential]
I/36514 . . . . . . . . . . . . . . . . . [controlled by a physiological quantity other than heart potential, e.g. blood pressure (controlled by two or more physical parameters A61N 1/36585)]
I/36521 . . . . . . . . . . . . . . . . . [the parameter being derived from measurement of an electrical impedance]
I/36528 . . . . . . . . . . . . . . . . . [the parameter being measured by means of ultrasound]
I/36535 . . . . . . . . . . . . . . . . . [controlled by body position or posture]
I/36542 . . . . . . . . . . . . . . . . . [controlled by body motion, e.g. acceleration]

I/3655 . . . . . . . . . . . . . . . . . [controlled by body or blood temperature]
I/36557 . . . . . . . . . . . . . . . . . [controlled by chemical substances in blood]
I/36564 . . . . . . . . . . . . . . . . . [controlled by blood pressure]
I/36571 . . . . . . . . . . . . . . . . . [controlled by blood flow rate, e.g. blood velocity or cardiac output]
I/36578 . . . . . . . . . . . . . . . . . [controlled by mechanical motion of the heart wall, e.g. measured by an accelerometer or microphone]

WARNING

Group A61N 1/3684 is impacted by reclassification into groups A61N 1/36842 and A61N 1/36843.
Groups A61N 1/3684, A61N 1/36842 and A61N 1/36843 should be considered in order to perform a complete search.

I/36842 . . . . . . . . . . . . . . . . . (Multi-site stimulation in the same chamber)

WARNING

Group A61N 1/36843 is incomplete pending reclassification of documents from group A61N 1/3684.
Groups A61N 1/36842 and A61N 1/3684 should be considered in order to perform a complete search.

I/3686 . . . . . . . . . . . . . . . . . [configured for selecting the electrode configuration on a lead (A61N 1/3688 takes precedence)]
I/3688 . . . . . . . . . . . . . . . . . [configured for switching the pacing mode, e.g. from AAI to DDD]

I/37 . . . . . . . . . . . . . . . . . Monitoring; Protecting
I/3702 . . . . . . . . . . . . . . . . . [Physiological parameters (A61N 1/365 takes precedence; evoked response A61N 1/371)]
Circuits specially adapted therefor, e.g. for sensitivity control

Pacemaker parameters (stimulation threshold A61N 1/371)

for power depletion

Capture, i.e. successful stimulation

Auto-capture, i.e. automatic adjustment of the stimulation threshold

(Atrial capture)

with reduction of residual polarisation effects

Monitoring of or protection against external electromagnetic fields or currents

Arrangements in connection with the implantation of stimulators

Microstimulators, e.g. implantable through a cannula

Means for communicating with stimulators

(characterised by the communication link, e.g. acoustic or tactile)

(Circuits for electromagnetic coupling)

(Shape or location of the implanted or external antenna)

Aspects of the external programmer

(providing test stimulations)

(User interfaces, e.g. input or presentation means)

(Details of algorithms or data aspects of communication system, e.g. handshaking, transmitting specific data or segmenting data)

(Afalling the patient)

(Changing the program; Upgrading firmware)

(characterised by the modulation technique)

(characterised by means for reducing power consumption during telemetry)

(characterised by communication with experts in remote locations using a network)

(Communication to several implantable medical devices within one patient)

(Means for testing medical devices within the package prior to implantation)

Constructional arrangements, e.g. casings

Warning

Group A61N 1/375 is impacted by reclassification into groups A61N 1/37512, A61N 1/37514, A61N 1/37516 and A61N 1/37518.

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

Pacemakers

Brain implants

Intracervical implants

Anchoring of the implants, e.g. fixation

Details of casing-lead connections
A61N

1/3758 . . . . . {Packaging of the components within the casing}
1/378 . . . . . Electrical supply
1/3782 . . . . . {producing a voltage above the power source level}
1/3785 . . . . . {generated by biological activity or substance, e.g. body movement}
1/3787 . . . . . {from an external energy source}
1/38 . . . . . for producing shock effects
1/385 . . . . . {Devices for inducing an abnormal cardiac function, e.g. fibrillation}
1/39 . . . . . Heart defibrillators

**WARNING**

Group A61N 1/39 is impacted by reclassification into groups A61N 1/3904, A61N 1/39044 and A61N 1/39046.

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

1/3904 . . . . . {External heart defibrillators [EHD]}

**WARNING**

Group A61N 1/3904 is incomplete pending reclassification of documents from group A61N 1/39.

Groups A61N 1/3904 and A61N 1/39 should be considered in order to perform a complete search.

1/39044 . . . . . {in combination with cardiopulmonary resuscitation [CPR] therapy}

**WARNING**

Group A61N 1/39044 is incomplete pending reclassification of documents from group A61N 1/39.

Groups A61N 1/39044 and A61N 1/39 should be considered in order to perform a complete search.

1/39046 . . . . . {User protection from shock}

**WARNING**

Group A61N 1/39046 is incomplete pending reclassification of documents from group A61N 1/39.

Groups A61N 1/39046 and A61N 1/39 should be considered in order to perform a complete search.

1/3906 . . . . . {characterised by the form of the shockwave}
1/3912 . . . . . {Output circuitry therefor, e.g. switches}
1/3918 . . . . . {characterised by shock pathway, e.g. by electrode configuration}
1/3925 . . . . . {Monitoring; Protecting}
1/3931 . . . . . {Protecting, e.g. back-up systems}
1/3937 . . . . . {Monitoring output parameters}
1/3943 . . . . . {for threshold determination}
1/395 . . . . . {for treating atrial fibrillation}
1/3956 . . . . . {Implantable devices for applying electric shocks to the heart, e.g. for cardioversion}

1/3962 . . . . . {in combination with another heart therapy}

**WARNING**

Group A61N 1/3962 is impacted by reclassification into groups A61N 1/39622 and A61N 1/39624.

Groups A61N 1/3962, A61N 1/39622 and A61N 1/39624 should be considered in order to perform a complete search.

1/39622 . . . . . {Pacing therapy}

**WARNING**

Group A61N 1/39622 is incomplete pending reclassification of documents from group A61N 1/3962.

Groups A61N 1/39622 and A61N 1/3962 should be considered in order to perform a complete search.

1/39624 . . . . . {Pain reduction therapy}

**WARNING**

Group A61N 1/39624 is incomplete pending reclassification of documents from group A61N 1/3962.

Groups A61N 1/39624 and A61N 1/3962 should be considered in order to perform a complete search.

1/3968 . . . . . {Constructional arrangements, e.g. casings (A61N 1/375 takes precedence)}
1/3975 . . . . . {Power supply (A61N 1/378 takes precedence)}
1/3981 . . . . . {High voltage charging circuitry}
1/3987 . . . . . {characterised by the timing or triggering of the shock}
1/3993 . . . . . {User interfaces for automatic external defibrillators}

1/40 . Applying electric fields by inductive or capacitive coupling (microwave apparatus A61N 5/00); [Applying radio-frequency signals]
1/403 . . . . . {for thermotherapy, e.g. hyperthermia}
1/406 . . . . . {using implantable thermoseeds or injected particles for localized hyperthermia (preparations of seeds and particles A61K 41/0052)}

1/44 . Applying ionised fluids {ion generators H01J 37/00)}
1/445 . . . . . {Hydro-electric baths}

2/00 Magnetotherapy

2/002 . . . . . {in combination with another treatment}
2/004 . . . . . {specially adapted for a specific therapy}
2/006 . . . . . {for magnetic stimulation of nerve tissue}
2/008 . . . . . {for pain treatment or analgesia}
2/02 . . . . . using magnetic fields produced by coils, including single turn loops or electromagnets (A61N 2/12 takes precedence)
using magnetic fields produced by permanent magnets (A61N 2/12 takes precedence)  
using variable magnetic fields obtained by mechanical movement

**Radiation therapy** (ultrasound therapy A61N 7/00; devices or apparatus applicable to both therapy and diagnosis A61B 6/00)

- 2005/002 . [Cooling systems]
- 2005/005 . [for cooling the radiator]
- 2005/007 . [for cooling the patient]
- 5/01 . Devices for producing movement of radiation source during therapy (A61N 5/1077 takes precedence)
- 5/02 . using microwaves
- 5/022 . [Apparatus adapted for a specific treatment]
- 5/025 . [Warming the body, e.g. hyperthermia treatment]
- 2005/027 . (using a phased array)
- 5/04 . Radiators for near-field treatment
- 5/045 . [specially adapted for treatment inside the body]
- 5/06 . using light
- 5/0601 . [Apparatus for use inside the body]
- 2005/0602 . [for treatment of blood vessels]
- 5/0603 . [for treatment of body cavities]
- 2005/0604 . [Lungs and/or airways]
- 2005/0605 . [Ear]
- 2005/0606 . [Mouth]
- 2005/0607 . [Nose]
- 2005/0608 . [Rectum]
- 2005/0609 . [Stomach and/or esophagus]
- 2005/061 . [Bladder and/or urethra]
- 2005/0611 . [Vagina]
- 2005/0612 . [using probes penetrating tissue; interstitial probes]
- 5/0613 . [Apparatus adapted for a specific treatment]
- 5/0614 . [Tanning]
- 2005/0615 . [using UV light sources having a specific spectrum]
- 5/0616 . [Skin treatment other than tanning]
- 5/0617 . [Hair treatment]
- 5/0618 . [Psychological treatment]
- 5/0619 . [Acupuncture]
- 5/062 . [Photodynamic therapy, i.e. excitation of an agent]
- 5/0621 . [Hyperbilirubinemia, jaundice treatment]
- 5/0622 . [Optical stimulation for exciting neural tissue]
- 5/0624 . [for eliminating microbes, germs, bacteria on or in the body]
- 5/0625 . [Warming the body, e.g. hyperthermia treatment]
- 2005/0626 . [Monitoring, verifying, controlling systems and methods]
- 2005/0627 . [Dose monitoring systems and methods]
- 2005/0628 . [including a radiation sensor]
- 2005/0629 . [Sequential activation of light sources]
- 2005/063 . [comprising light transmitting means, e.g. optical fibres]
- 2005/0631 . [using crystals]
- 2005/0632 . [Constructional aspects of the apparatus]
- 2005/0633 . [Arrangements for lifting or hinging the frame which supports the light sources]
- 2005/0634 . [Mechanisms that allow a space saving storage of the apparatus]
- 2005/0635 . [characterised by the body area to be irradiated]
- 2005/0636 . [Irradiating the whole body]
- 2005/0637 . [in a horizontal position]
- 2005/0638 . [with a specially adapted support surface]
- 2005/0639 . [with additional sources directed at, e.g. the face or the feet]
- 2005/064 . [in a vertical position]
- 2005/0641 . [with rotation of the patient]
- 2005/0642 . [Irradiating part of the body at a certain distance]
- 2005/0643 . [Applicators, probes irradiating specific body areas in close proximity]
- 2005/0644 . [Handheld applicators]
- 2005/0645 . [Applicators worn by the patient]
- 2005/0647 . [the applicator adapted to be worn on the head]
- 2005/0648 . [the light being directed to the eyes]
- 2005/0649 . [using suction to fix the applicator to the tissue]
- 2005/065 . [Light sources therefor]
- 2005/0651 . [Diodes]
- 2005/0652 . [Arrays of diodes]
- 2005/0653 . [Organic light emitting diodes]
- 2005/0654 . [Lamps]
- 2005/0655 . [Tubes]
- 2005/0656 . [Chemical light sources]
- 2005/0657 . [Natural light sources, e.g. captured sunlight]
- 2005/0658 . [characterised by the wavelength of light used]
- 2005/0659 . [infra-red]
- 2005/066 . [far infrared]
- 2005/0661 . [ultra-violet]
- 2005/0662 . [Visible light]
- 2005/0663 . [Coloured light]
- 2005/0664 . [Details]
- 2005/0665 . [Reflectors]
- 2005/0666 . [for redirecting light to the treatment area]
- 2005/0667 . [Filters]
- 2005/0668 . [Apparatus adapted for operation in a moist environment, e.g. bath or shower]
- 2005/067 . [using laser light]
- 2005/073 . [using polarised light]
- 5/10 . X-ray therapy; Gamma-ray therapy; Particle-irradiation therapy (A61N 5/01 takes precedence)
- 5/1001 . [using radiation sources introduced into or applied onto the body; brachytherapy]
- 5/1002 . [Intraluminal radiation therapy]
- 2005/1003 . [having means for centering a radioactive source within the lumen, e.g. balloons]
- 2005/1004 . [having expandable radiation sources]
- 2005/1005 . [with asymmetrical radiation pattern]
- 5/1007 . [Arrangements or means for the introduction of sources into the body]
- 2005/1008 . [Apparatus for temporary insertion of sources, e.g. afterloaders]
- 2005/1009 . [Apparatus for loading seeds into magazines or needles]
- 2005/101 . [Magazines or cartridges for seeds]
- 2005/1011 . [Apparatus for permanent insertion of sources]
- 2005/1012 . [Templates or grids for guiding the introduction of sources]
...{Monitoring, verifying, controlling systems and 
within the treatment head}
{with spatial modulation of the radiation beam 
in the treatment head}
{Scanning the radiation beam, e.g. spot 
scanning or raster scanning}
{with multiple repetitions of the scanning 
pattern}
{with a multi-leaf collimator, e.g. for intensity 
modulated radiation therapy or IMRT}
{with movement of the radiation head during 
application of radiation, e.g. for intensity 
modulated arc therapy or IMAT}
{Monitoring, verifying, controlling systems and 
methods}
{for verifying the position of the patient with 
respect to the radiation beam}
{using a laser alignment system}
{using an active marker (markers in general 
A61B 90/39)}
{using positron emission tomography 
[PET] single photon emission computer 
tomography [SPECT] imaging}
{using a portal imaging system}
{using magnetic resonance imaging [MRI]}
{by projecting a visible image of the 
treatment field}
{monitoring flexing of the patient support or the 
radiation treatment apparatus}
{using ultrasound imaging}
{using cameras imaging the patient}
Skin treatment

using microbubbles

intra-cavitary

interstitial

using the same transducer for therapy and imaging

Beam shaping elements

Lenses

Concave transducers

Reflectors

using multiple frequencies

with multiple treatment transducers

Scanning transducers

Beam steering

with moving parts, e.g. transducers, lenses, reflectors

Localised ultrasound hyperthermia (hyperthermia in general A61F 7/00)

intracavitary

interstitial

with multiple foci created simultaneously