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
restoration 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:
- A61N 1/34 covered by A61N 1/36021, A61N 1/36071
- A61N 2/04 covered by A61N 2/02
- A61N 2/08 covered by A61N 2/06
- A61N 2/10 covered by A61N 2/06
- A61N 5/067 covered by A61N 5/06, A61N 2005/067
- A61N 5/073 covered by A61N 5/06, A61N 2005/073
- A61N 5/08 covered by A61N 5/06
2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the
scheme.

1/00 Electrotherapy; Circuits therefor (A61N 2/00 takes precedence; irradiation apparatus A61N 5/00)
1/02 . Details
1/025 . . (Digital circuitry features of electrotherapy devices, e.g. memory, clocks, processors)
1/04 . . Electrodes (electrosurgical electrodes A61B 18/14)
1/0404 . . [for external use (A61N 1/06 takes precedence)]
1/0408 . . . [Use-related aspects]
1/0412 . . . . (Specially adapted for transcutaneous electroporation, e.g. including drug reservoirs)
1/0416 . . . . . . . [Anode and cathode]
1/042 . . . . . . . . [Material of the electrode]
1/0424 . . . . . . . . . [Shape of the electrode]
1/0428 . . . . . . . . [Specially adapted for iontophoresis, e.g. AC, DC or including drug reservoirs]
1/0432 . . . . . . . . [Anode and cathode]
1/0436 . . . . . . . . . [Material of the electrode]
1/044 . . . . . . . . . . [Shape of the electrode]
1/0444 . . . . . . . . [Membrane]
1/0448 . . . . . . . . [Drug reservoir]
1/0452 . . . . . . . . (Specially adapted for transcutaneous muscle stimulation [TMS])
1/0456 . . . . . . . . [Specially adapted for transcutaneous electrical nerve stimulation [TENS]]
1/046 . . . . . . . . . (Specially adapted for shock therapy, e.g. defibrillation)
1/0464 . . . . . . . . . (Specially adapted for promoting tissue growth)
1/0468 . . . . . . . . . (Specially adapted for promoting wound healing)
1/0472 . . . . . . . . [Structure-related aspects]
1/0476 . . . . . . . . . (Array electrodes (including any electrode arrangement with more than one electrode for at least one of the polarities))
1/048 . . . . . . . . (Electrodes characterised by a specific connection between lead and electrode)
1/0484 . . . . . . . . . (Garment electrodes worn by the patient)
1/0488 . . . . . . . . . (Details about the lead)
1/0492 . . . . . . . . . (Patch electrodes (A61N 1/0412, A61N 1/0428 take precedence))
1/0496 . . . . . . . . . (Characterised by using specific chemical compositions, e.g. hydrogel compositions, adhesives)
1/05 . . . . . for implantation or insertion into the body, e.g. heart electrode (A61N 1/06 takes precedence)
1/0502 . . . . . . . . . (Skin piercing electrodes)
1/0504 . . . . . . . . . (Subcutaneous electrodes)
Arrangements or circuits for monitoring, protecting, controlling or indicating ([for external stimulators A61N 1/3603; for implantable 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.

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A61N

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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]

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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

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1/08 . . . . Arrangements or circuits for monitoring, protecting, controlling or indicating ([for external stimulators A61N 1/3603; for implantable 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.

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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.

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1/056 . . . . [Electrodes for deep brain stimulation]
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]

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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

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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 3000)
1/16 . . . . Screening or neutralising undesirable influences from (or using,) atmospheric or terrestrial radiation or fields (using atmospheric electricity or earth currents H05F 3000)
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 A61J; 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 1/36002 is incomplete pending reclassification of documents from group A61N 1/36.

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

WARNING

Group A61N 1/36014 is impacted by reclassification into groups A61N 1/3603, A61N 1/36031 and A61N 1/36034.

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

WARNING

Group A61N 1/3603 is incomplete pending reclassification of documents from groups A61N 1/08, A61N 2001/083 and A61N 1/36014.

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

WARNING

Group A61N 1/36031 is using physiological parameters for adjustment

WARNING

Group A61N 1/36034 is incomplete pending reclassification of documents from group A61N 1/36014.

Groups A61N 1/36031 and A61N 1/36014 should be considered in order to perform a complete search.

WARNING

Group A61N 1/3603 is incomplete pending reclassification of documents from group A61N 1/36014.

Groups A61N 1/36034 and A61N 1/36014 should be considered in order to perform a complete search.

WARNING

Group A61N 1/3603 is impacted by reclassification into groups A61N 1/3603 and A61N 1/36039.

Groups A61N 1/3603, A61N 1/36036, A61N 1/36038 and A61N 1/36039 should be considered in order to perform a complete search.

WARNING

Groups A61N 1/36038 and A61N 1/36039 are incomplete pending reclassification of documents from group A61N 1/36036.

Groups A61N 1/36038, A61N 1/36036 and A61N 1/36039 should be considered in order to perform a complete search.

WARNING

Group A61N 1/3603 is incomplete pending reclassification of documents from groups A61N 1/08, A61N 2001/083 and A61N 1/36014.

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

WARNING

Group A61N 1/36031 is using physiological parameters for adjustment
A61N

1/360 . . . . . . . {adapted for a particular treatment}

WARNING

Group A61N 1/360 is impacted by reclassification into group A61N 1/3606.
Groups A61N 1/360 and A61N 1/3606 should be considered in order to perform a complete search.

1/3606 . . . . . . . {Spinal stimulation}

WARNING

Group A61N 1/3606 is impacted by reclassification into group A61N 1/36062.
Groups A61N 1/3606 and A61N 1/36062 should be considered in order to perform a complete search.

1/36062 . . . . . . . {Epilepsy}

1/36067 . . . . . . . {Movement disorders, e.g. tremor or Parkinson disease (stimulating motor muscle A61N 1/36003)}

1/36071 . . . . . . . {Pain}

1/36075 . . . . . . . {Headache or migraine}

1/36078 . . . . . . . {Inducing or controlling sleep or relaxation (non-implantable stimulator A61M 21/00)}

1/36082 . . . . . . . {Cognitive or psychiatric applications, e.g. dementia or Alzheimer's disease}

1/36085 . . . . . . . {Eating disorders or obesity}

1/36089 . . . . . . . {Addiction or withdrawal from substance abuse such as alcohol or drugs}

1/36092 . . . . . . . {Mental training}

1/36096 . . . . . . . {Mood disorders, e.g. depression, anxiety or panic disorder}

1/361 . . . . . . . {Phantom sensations, e.g. tinnitus}

1/36103 . . . . . . . {Neuro-rehabilitation; Repair or reorganisation of neural tissue, e.g. after stroke}

1/36107 . . . . . . . {Sexual dysfunction (stimulating genital organs A61N 1/36007)}

1/3611 . . . . . . . {Respiration control (stimulating respiratory organs A61N 1/3601)}

1/36114 . . . . . . . {Cardiac control, e.g. by vagal stimulation (stimulating the heart A61N 1/362)}

1/36117 . . . . . . . {for treating hypertension}

1/36121 . . . . . . . {Production of neurotransmitters; Modulation of genes expression}

1/36125 . . . . . . . {Details of circuitry or electric components}

1/36128 . . . . . . . {Control systems}

1/36132 . . . . . . . {using patient feedback}

1/36135 . . . . . . . {using physiological parameters}

WARNING

Group A61N 1/36135 is impacted by reclassification into group A61N 1/3614.
Groups A61N 1/36135 and A61N 1/3614 should be considered in order to perform a complete search.

1/36139 . . . . . . . {with automatic adjustment}

1/3614 . . . . . . . {based on impedance measurement}

WARNING

Group A61N 1/3614 is incomplete pending reclassification of documents from group A61N 1/36135.
Groups A61N 1/3614 and A61N 1/36135 should be considered in order to perform a complete search.

1/36142 . . . . . . . {for improving safety}

1/36146 . . . . . . . {specified by the stimulation parameters}

1/3615 . . . . . . . {Intensity}

1/36153 . . . . . . . {Voltage (A61N 1/3616 takes precedence)}

WARNING

Group A61N 1/36153 is impacted by reclassification into group A61N 1/3616.
Groups A61N 1/36153 and A61N 1/3616 should be considered in order to perform a complete search.

1/36157 . . . . . . . {Current (A61N 1/3616 takes precedence)}

WARNING

Group A61N 1/36157 is impacted by reclassification into group A61N 1/3616.
Groups A61N 1/36157 and A61N 1/3616 should be considered in order to perform a complete search.

1/3616 . . . . . . . {Voltage density or current density}

WARNING

Group A61N 1/3616 is incomplete pending reclassification of documents from groups A61N 1/36153 and A61N 1/36157.
Groups A61N 1/3616, A61N 1/36153, and A61N 1/36157 should be considered in order to perform a complete search.
A61N

1/362 . . . . . . . Heart stimulators (heart defibrillators A61N 1/39)

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.

1/365 . . . . . . . controlled by a physiological parameter, e.g. heart potential (evoked response A61N 1/371)
1/36507 . . . . . . . [controlled by gradient or slope of the heart potential]
1/36514 . . . . . . . [controlled by a physiological quantity other than heart potential, e.g. blood pressure (controlled by two or more physical parameters A61N 1/36585)]
1/36521 . . . . . . . [the parameter being derived from measurement of an electrical impedance]
1/36528 . . . . . . . [the parameter being measured by means of ultrasound]
1/36535 . . . . . . . [controlled by body position or posture]
1/36542 . . . . . . . [controlled by body motion, e.g. acceleration]
1/3655 . . . . . . . [controlled by body or blood temperature]
1/36557 . . . . . . . [controlled by chemical substances in blood]
1/36564 . . . . . . . [controlled by blood pressure]
1/36571 . . . . . . . [controlled by blood flow rate, e.g. blood velocity or cardiac output]
1/36578 . . . . . . . [controlled by mechanical motion of the heart wall, e.g. measured by an accelerometer or microphone]
1/36585 . . . . . . . [controlled by two or more physical parameters]
1/36592 . . . . . . . [controlled by the heart rate variability]
1/368 . . . . . . . comprising more than one electrode cooperating with different heart regions (A61N 1/3622, A61N 1/3627 take precedence)
1/3682 . . . . . . . [with a variable atrioventricular delay]
1/3684 . . . . . . . [for stimulating the heart at multiple sites of the ventricle or the atrium]

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.

1/36842 . . . . . . . [Multi-site stimulation in the same chamber]

WARNING

Group A61N 1/36842 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.

1/36843 . . . . . . . [Bi-ventricular stimulation]

WARNING

Group A61N 1/36843 is incomplete pending reclassification of documents from group A61N 1/3684.

Groups A61N 1/36843 and A61N 1/3684 should be considered in order to perform a complete search.

1/3686 . . . . . . . [configured for selecting the electrode configuration on a lead (A61N 1/3688 takes precedence)]
1/3688 . . . . . . . [configured for switching the pacing mode, e.g. from AAI to DDD]
1/37 . . . . . . . Monitoring; Protecting
1/3702 . . . . . . . [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

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

Pacemaker or defibrillator security, e.g. to prevent or inhibit programming alterations by hackers or unauthorised individuals

Brain implants

Intravascular implants

Anchoring of the implants, e.g. fixation

Alerting the patient

Changing the program; Upgrading firmware

characterised by the modulation technique

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

WARNING
Group A61N 1/37512 is incomplete pending reclassification of documents from group A61N 1/375.

Groups A61N 1/37512 and A61N 1/375 should be considered in order to perform a complete search.

Brain implants

WARNING
Group A61N 1/37514 is incomplete pending reclassification of documents from group A61N 1/375.

Groups A61N 1/37514 and A61N 1/375 should be considered in order to perform a complete search.

Intravascular implants

WARNING
Group A61N 1/37516 is incomplete pending reclassification of documents from group A61N 1/375.

Groups A61N 1/37516 and A61N 1/375 should be considered in order to perform a complete search.

Anchoring of the implants, e.g. fixation

WARNING
Group A61N 1/37518 is incomplete pending reclassification of documents from group A61N 1/375.

Groups A61N 1/37518 and A61N 1/375 should be considered in order to perform a complete search.

Details of casing-lead connections

Feedthroughs

Casings with electrodes thereon, e.g. leadless stimulators
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 1/3922 and A61N 1/39624.

Groups A61N 1/3962, A61N 1/3922 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 1/375 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 H011 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)
2/06 . using magnetic fields produced by permanent magnets (A61N 2/12 takes precedence)
2/12 . using variable magnetic fields obtained by mechanical movement

5/00 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]
5/0605 . [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]
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5/1014 . . . . [Intracavitary radiation therapy]
5/1015 . . . . [Treatment of resected cavities created by surgery, e.g. lumpectomy]
5/1016 . . . . [Gynaecological radiation therapy]
5/1017 . . . . [Treatment of the eye, e.g. for "macular degeneration"]

2005/1018 . . . . [with multiple channels for guiding radioactive sources]
2005/1019 . . . . [Sources thereof]
2005/1021 . . . . [Radioactive fluid]
2005/1022 . . . . [Generators, e.g. X-ray tubes]
2005/1023 . . . . [Means for creating a row of seeds, e.g. spacers]
2005/1024 . . . . [Seeds]
2005/1025 . . . . [Wires]
5/1027 . . . . [Interstitial radiation therapy]
5/1028 . . . . [using radiation sources applied onto the body]
5/1029 . . . . [Radioactive dressings]
5/103 . . . . [Treatment planning systems]
5/1031 . . . . [using a specific method of dose optimization]

2005/1032 . . . . [Genetic optimization methods]
2005/1034 . . . . [Monte Carlo type methods; particle tracking]

2005/1035 . . . . [Simulated annealing]
5/1036 . . . . [Leaf sequencing algorithms]
5/1037 . . . . [taking into account the movement of the target, e.g. 4D-image based planning]
5/1038 . . . . [taking into account previously administered plans applied to the same patient, i.e. adaptive radiotherapy]
5/1039 . . . . [using functional images, e.g. PET or MRI]

2005/1041 . . . . [using a library of previously administered radiation treatment applied to other patients]
5/1042 . . . . [with spatial modulation of the radiation beam within the treatment head]
5/1043 . . . . [Scanning the radiation beam, e.g. spot scanning or raster scanning]
5/1044 . . . . [with multiple repetitions of the scanning pattern]
5/1045 . . . . [using a multi-leaf collimator, e.g. for intensity modulated radiation therapy or IMRT]
5/1047 . . . . [with movement of the radiation head during application of radiation, e.g. for intensity modulated arc therapy or IMAT]
5/1048 . . . . [Monitoring, verifying, controlling systems and methods]
5/1049 . . . . [for verifying the position of the patient with respect to the radiation beam]

2005/105 . . . . [using a laser alignment system]
2005/1051 . . . . [using an active marker (markers in general A61B 90/39)]

2005/1052 . . . . [using positron emission tomography [PET] single photon emission computer tomography [SPECT] imaging]
2005/1054 . . . . [using a portal imaging system]
2005/1055 . . . . [using magnetic resonance imaging [MRI]]
2005/1056 . . . . [by projecting a visible image of the treatment field]
2005/1057 . . . . [monitoring flexing of the patient support or the radiation treatment apparatus]
2005/1058 . . . . [using ultrasound imaging]
2005/1059 . . . . [using cameras imaging the patient]

2005/1061 . . . . [using an x-ray imaging system having a separate imaging source]
2005/1062 . . . . [using virtual X-ray images, e.g. digitally reconstructed radiographs [DRR]]
2005/1063 . . . . [maintaining the position when the patient is moved from an imaging to a therapy system]
5/1064 . . . . [for adjusting radiation treatment in response to monitoring]
5/1065 . . . . [Beam adjustment]
5/1067 . . . . [in real time, i.e. during treatment]
5/1068 . . . . [Gating the beam as a function of a physiological signal]
5/1069 . . . . [Target adjustment, e.g. moving the patient support]
5/107 . . . . [in real time, i.e. during treatment]
5/1071 . . . . [for verifying the dose delivered by the treatment plan]

2005/1072 . . . . [taking into account movement of the target]
2005/1074 . . . . [Details of the control system, e.g. user interfaces]
5/1075 . . . . [for testing, calibrating, or quality assurance of the radiation treatment apparatus]
2005/1076 . . . . [using a dummy object placed in the radiation field, e.g. phantom]
5/1077 . . . . [Beam delivery systems]
5/1078 . . . . [Fixed beam systems]
5/1079 . . . . [Sharing a beam by multiple treatment stations]
5/1081 . . . . [Rotating beam systems with a specific mechanical construction, e.g. gauntires]
5/1082 . . . . [having multiple beam rotation axes]
5/1083 . . . . [Robot arm beam systems]
5/1084 . . . . [for delivering multiple intersecting beams at the same time, e.g. gamma knives]

2005/1085 . . . . [characterised by the type of particles applied to the patient]
2005/1087 . . . . [Ions; Protons]
2005/1088 . . . . [generated by laser radiation]
2005/1089 . . . . [Electrons]
2005/109 . . . . [Neutrons]
2005/1091 . . . . [Kilovoltage or orthovoltage range photons]
2005/1092 . . . . [Details]
2005/1094 . . . . [Shielding, protecting against radiation]
2005/1095 . . . . [Elements inserted into the radiation path within the system, e.g. filters or wedges]
2005/1096 . . . . [Elements inserted into the radiation path placed on the patient, e.g. bags, bolus, compensators]
2005/1097 . . . . [Means for immobilizing the patient]
2005/1098 . . . . [Enhancing the effect of the particle by an injected agent or implanted device]

7/00 Ultrasound therapy (lithotripsy A61B 17/22, A61B 17/225; massage using supersonic vibration A61H 23/00 ; using ultrasound for introducing media into the body A61M 37/0092))
2007/0004 . . . . [Applications of ultrasound therapy]
2007/0008 . . . . [Destruction of fat cells]
2007/0013 . . . . [Fracture healing]
2007/0017 . . . . [Wound healing]
2007/0021 . . . . [Neural system treatment]
2007/0026 . . . . [Stimulation of nerve tissue]
2007/003 . . . . [Destruction of nerve tissue]
2007/0034  .  .  (Skin treatment)
2007/0039  .  .  (using microbubbles)
2007/0043  .  .  (intra-cavitary)
2007/0047  .  .  (interstitial)
2007/0052  .  .  (using the same transducer for therapy and imaging)
2007/0056  .  .  (Beam shaping elements)
2007/006  .  .  (Lenses)
2007/0065  .  .  (Concave transducers)
2007/0069  .  .  (Reflectors)
2007/0073  .  .  (using multiple frequencies)
2007/0078  .  .  (with multiple treatment transducers)
2007/0082  .  .  (Scanning transducers)
2007/0086  .  .  (Beam steering)
2007/0091  .  .  (with moving parts, e.g. transducers, lenses, reflectors)
2007/0095  .  .  (by modifying an excitation signal)
  7/02  .  .  Localised ultrasound hyperthermia (hyperthermia in general A61F 7/00)
  7/022  .  .  (intracavitary)
2007/025  .  .  (interstitial)
2007/027  .  .  (with multiple foci created simultaneously)