

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:

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 5/073	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)	1/0456	. . . . .	{Specially adapted for transcutaneous electrical nerve stimulation [TENS]}
1/02	. Details	1/046	. . . . .	{Specially adapted for shock therapy, e.g. defibrillation}
1/025	. . {Digital circuitry features of electrotherapy devices, e.g. memory, clocks, processors}	1/0464	. . . . .	{Specially adapted for promoting tissue growth}
1/04	. . Electrodes {(electrosurgical electrodes A61B 18/14)}	1/0468	. . . . .	{Specially adapted for promoting wound healing}
1/0404	. . . {for external use (A61N 1/06 takes precedence)}	1/0472	. . . . .	{Structure-related aspects}
1/0408	. . . . {Use-related aspects}	1/0476	. . . . .	{Array electrodes (including any electrode arrangement with more than one electrode for at least one of the polarities)}
1/0412	. . . . . {Specially adapted for transcutaneous electroporation, e.g. including drug reservoirs}	1/048	. . . . .	{Electrodes characterised by a specific connection between lead and electrode}
1/0416	. . . . . {Anode and cathode}	1/0484	. . . . .	{Garment electrodes worn by the patient}
1/042	. . . . . {Material of the electrode}	1/0488	. . . . .	{Details about the lead}
1/0424	. . . . . {Shape of the electrode}	1/0492	. . . . .	{Patch electrodes (A61N 1/0412 , A61N 1/0428 take precedence)}
1/0428	. . . . . {Specially adapted for iontophoresis, e.g. AC, DC or including drug reservoirs}	1/0496	. . . . .	{characterised by using specific chemical compositions, e.g. hydrogel compositions, adhesives}
1/0432	. . . . . {Anode and cathode}	1/05	. . .	for implantation or insertion into the body, e.g. heart electrode (A61N 1/06 takes precedence)
1/0436	. . . . . {Material of the electrode}	1/0502	. . . . .	{Skin piercing electrodes}
1/044	. . . . . {Shape of the electrode}	1/0504	. . . . .	{Subcutaneous electrodes}
1/0444	. . . . . {Membrane}	1/0507	. . . . .	{Electrodes for the digestive system}
1/0448	. . . . . {Drug reservoir}			
1/0452	. . . . . {Specially adapted for transcutaneous muscle stimulation [TMS]}			

1/0509	. . . . .	{Stomach and intestinal electrodes}	1/14	. . . . .	Leading-off electric charges, e.g. by earthing { carrying-off electrostatic charges, in general H05F 3/00 }
1/0512	. . . . .	{Anal electrodes}	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 }
1/0514	. . . . .	{Electrodes for the urinary tract}	1/18	. . . . .	Applying electric currents by contact electrodes
1/0517	. . . . .	{Esophageal electrodes}	1/20	. . . . .	continuous direct currents
1/0519	. . . . .	{Endotracheal electrodes}	1/205	. . . . .	{for promoting a biological process}
1/0521	. . . . .	{Genital electrodes}	1/22	. . . . .	Electromedical belts {, e.g. neck chains, armbands}
1/0524	. . . . .	{Vaginal electrodes}	1/24	. . . . .	with built-in power source
1/0526	. . . . .	{Head electrodes (A61N 1/0551 takes precedence)}	1/26	. . . . .	Electromedical brushes; Electromedical massage devices {(massage devices in general A61H); Combs}
1/0529	. . . . .	{Electrodes for brain stimulation}	1/28	. . . . .	Apparatus for applying thermoelectric currents
1/0531	. . . . .	{Brain cortex electrodes}	1/30	. . . . .	Apparatus for iontophoresis, {i.e. transfer of media in ionic state by an electromotoric force into the body}, or cataphoresis
1/0534	. . . . .	{Electrodes for deep brain stimulation}	1/303	. . . . .	{Constructional details (electrodes for external use A61N 1/0428)}
1/0536	. . . . .	{Preventing neurodegenerative response or inflammatory reaction}	1/306	. . . . .	{Arrangements where at least part of the apparatus is introduced into the body}
1/0539	. . . . .	{Anchoring of brain electrode systems, e.g. within burr hole}	1/32	. . . . .	alternating or intermittent currents {(applying electric fields by inductive or capacitive coupling A61N 1/40 ; microwave apparatus A61N 5/02)}
1/0541	. . . . .	{Cochlear electrodes}	1/321	. . . . .	{Electromedical belts}
1/0543	. . . . .	{Retinal electrodes}	1/322	. . . . .	{Electromedical brushes, combs, massage devices}
1/0546	. . . . .	{Nasal electrodes}	1/323	. . . . .	{Interference currents, i.e. treatment by several currents summed in the body}
1/0548	. . . . .	{Oral electrodes}	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)}
1/0551	. . . . .	{Spinal or peripheral nerve electrodes}	1/326	. . . . .	{for promoting growth of cells, e.g. bone cells}
1/0553	. . . . .	{Paddle shaped electrodes, e.g. for laminotomy}	1/327	. . . . .	{for enhancing the absorption properties of tissue, e.g. by electroporation}
1/0556	. . . . .	{Cuff electrodes}	1/328	. . . . .	{for improving the appearance of the skin, e.g. facial toning or wrinkle treatment}
1/0558	. . . . .	{Anchoring or fixation means therefor}	1/36	. . . . .	for stimulation
1/056	. . . . .	{Transvascular endocardial electrode systems}	1/36002	. . . . .	{Cancer treatment, e.g. tumour}
1/0563	. . . . .	{specially adapted for defibrillation or cardioversion}	1/36003	. . . . .	{of motor muscles, e.g. for walking assistance}
1/0565	. . . . .	{Electrode heads}	1/36007	. . . . .	{of urogenital or gastrointestinal organs, e.g. for incontinence control}
1/0568	. . . . .	{with drug delivery}	1/3601	. . . . .	{of respiratory organs}
1/057	. . . . .	{Anchoring means; Means for fixing the head inside the heart}	1/36014	. . . . .	{External stimulators, e.g. with patch electrodes (external pacemakers A61N 1/3625)}
1/0573	. . . . .	{characterised by means penetrating the heart tissue, e.g. helix needle or hook}	1/36017	. . . . .	{with leads or electrodes penetrating the skin}
1/0575	. . . . .	{with drug delivery}	1/36021	. . . . .	{for treatment of pain}
2001/0578	. . . . .	{having means for removal or extraction}	1/36025	. . . . .	{for treating a mental or cerebral condition}
2001/058	. . . . .	{Fixing tools}	1/36028	. . . . .	{for aversion therapy}
2001/0582	. . . . .	{Suture sleeves}	1/3603	. . . . .	{Control systems}
2001/0585	. . . . .	{Coronary sinus electrodes}	1/36031	. . . . .	{using physiological parameters for adjustment}
1/0587	. . . . .	{Epicardial electrode systems; Endocardial electrodes piercing the pericardium}	1/36034	. . . . .	{specified by the stimulation parameters}
1/059	. . . . .	{Anchoring means}	1/36036	. . . . .	{of the outer, middle or inner ear}
1/0592	. . . . .	{Introducing the lead through the pericardium with a needle}	1/36038	. . . . .	{Cochlear stimulation}
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 implantable neurostimulators A61N 1/36128 ; for heart stimulators A61N 1/37 ; for defibrillators A61N 1/3925)}			
2001/083	. . . . .	{Monitoring integrity of contacts, e.g. by impedance measurement}			
1/086	. . . . .	{Magnetic resonance imaging [MRI] compatible leads}			
1/10	. . . . .	Applying static electricity (applying ionised gases or vapours A61N 1/44)			

1/36039	{fitting procedures}	1/36164	{Sub-threshold or non-excitatory signals (non-excitatory signals to the heart A61N 1/3628)}
1/3604	{for correcting spinal deformities, e.g. scoliosis}	1/36167	{Timing, e.g. stimulation onset}
1/36042	{of grafted tissue, e.g. skeletal muscle}	1/36171	{Frequency}
1/36046	{of the eye}	1/36175	{Pulse width or duty cycle}
1/3605	{Implantable neurostimulators for stimulating central or peripheral nerve system}	1/36178	{Burst or pulse train parameters}
1/36053	{adapted for vagal stimulation (A61N 1/36114 takes precedence)}	1/36182	{Direction of the electrical field, e.g. with sleeve around stimulating electrode}
1/36057	{adapted for stimulating afferent nerves}	1/36185	{Selection of the electrode configuration}
1/3606	{adapted for a particular treatment}	1/36189	{using modulation techniques}
1/36062	{Spinal stimulation}	1/36192	{Amplitude modulation}
1/36064	{Epilepsy}	1/36196	{Frequency modulation}
1/36067	{Movement disorders, e.g. tremor or Parkinson disease (stimulating motor muscle A61N 1/36003)}	1/362	Heart stimulators (heart defibrillators A61N 1/39)
1/36071	{Pain}	1/3621	{for treating or preventing abnormally high heart rate}
1/36075	{Headache or migraine}	1/3622	{comprising two or more electrodes co-operating with different heart regions}
1/36078	{Inducing or controlling sleep or relaxation (non-implantable stimulator A61M 21/00)}	1/3624	{occurring in the atrium, i.e. atrial tachycardia}
1/36082	{Cognitive or psychiatric applications, e.g. dementia or Alzheimer's disease}	1/3625	{External stimulators}
1/36085	{Eating disorders or obesity}	1/3627	{for treating a mechanical deficiency of the heart, e.g. congestive heart failure or cardiomyopathy}
1/36089	{Addiction or withdrawal from substance abuse such as alcohol or drugs}	1/3628	{using sub-threshold or non-excitatory signals}
1/36092	{Mental training}	1/3629	{in combination with non-electric therapy}
1/36096	{Mood disorders, e.g. depression, anxiety or panic disorder}	1/365	controlled by a physiological parameter, e.g. heart potential (evoked response A61N 1/371)}
1/361	{Phantom sensations, e.g. tinnitus}	1/36507	{controlled by gradient or slope of the heart potential}
1/36103	{Neuro-rehabilitation; Repair or reorganisation of neural tissue, e.g. after stroke}	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)}
1/36107	{Sexual dysfunction (stimulating genital organs A61N 1/36007)}	1/36521	{the parameter being derived from measurement of an electrical impedance}
1/3611	{Respiration control (stimulating respiratory organs A61N 1/3601)}	1/36528	{the parameter being measured by means of ultrasound}
1/36114	{Cardiac control, e.g. by vagal stimulation (stimulating the heart A61N 1/362)}	1/36535	{controlled by body position or posture}
1/36117	{for treating hypertension}	1/36542	{controlled by body motion, e.g. acceleration}
1/36121	{Production of neurotransmitters; Modulation of genes expression}	1/3655	{controlled by body or blood temperature}
1/36125	{Details of circuitry or electric components}	1/36557	{controlled by chemical substances in blood}
1/36128	{Control systems}	1/36564	{controlled by blood pressure}
1/36132	{using patient feedback}	1/36571	{controlled by blood flow rate, e.g. blood velocity or cardiac output}
1/36135	{using physiological parameters}	1/36578	{controlled by mechanical motion of the heart wall, e.g. measured by an accelerometer or microphone}
1/36139	{with automatic adjustment}	1/36585	{controlled by two or more physical parameters}
1/3614	{based on impedance measurement}	1/36592	{controlled by the heart rate variability}
1/36142	{for improving safety}		
1/36146	{specified by the stimulation parameters}		
1/3615	{Intensity}		
1/36153	{Voltage (A61N 1/3616 takes precedence)}		
1/36157	{Current (A61N 1/3616 takes precedence)}		
1/3616	{Voltage density or current density}		

1/368	. . . . .	comprising more than one electrode co-operating with different heart regions { A61N 1/3622 , A61N 1/3627 take precedence}	1/37276	. . . . .	{characterised by means for reducing power consumption during telemetry}
1/3682	. . . . .	{with a variable atrioventricular delay}	1/37282	. . . . .	{characterised by communication with experts in remote locations using a network}
1/3684	. . . . .	{for stimulating the heart at multiple sites of the ventricle or the atrium}	1/37288	. . . . .	{Communication to several implantable medical devices within one patient}
1/36842	. . . . .	{Multi-site stimulation in the same chamber}	2001/37294	. . . . .	{Means for testing medical devices within the package prior to implantation}
1/36843	. . . . .	{Bi-ventricular stimulation}	1/375	. . . . .	Constructional arrangements, e.g. casings
1/3686	. . . . .	{configured for selecting the electrode configuration on a lead (A61N 1/3688 takes precedence)}	1/37512	. . . . .	{Pacemakers}
1/3688	. . . . .	{configured for switching the pacing mode, e.g. from AAI to DDD}	1/37514	. . . . .	{Brain implants}
1/37	. . . . .	Monitoring; Protecting	1/37516	. . . . .	{Intravascular implants}
1/3702	. . . . .	{Physiological parameters (A61N 1/365 takes precedence; evoked response A61N 1/371)}	1/37518	. . . . .	{Anchoring of the implants, e.g. fixation}
1/3704	. . . . .	{Circuits specially adapted therefor, e.g. for sensitivity control}	1/3752	. . . . .	{Details of casing-lead connections}
1/3706	. . . . .	{Pacemaker parameters (stimulation threshold A61N 1/371)}	1/3754	. . . . .	{Feedthroughs}
1/3708	. . . . .	{for power depletion}	1/3756	. . . . .	{Casings with electrodes thereon, e.g. leadless stimulators}
1/371	. . . . .	{Capture, i.e. successful stimulation}	1/3758	. . . . .	{Packaging of the components within the casing}
1/3712	. . . . .	{Auto-capture, i.e. automatic adjustment of the stimulation threshold}	1/378	. . . . .	Electrical supply
1/3714	. . . . .	{Atrial capture}	1/3782	. . . . .	{producing a voltage above the power source level}
1/3716	. . . . .	{with reduction of residual polarisation effects}	1/3785	. . . . .	{generated by biological activity or substance, e.g. body movement}
1/3718	. . . . .	{Monitoring of or protection against external electromagnetic fields or currents}	1/3787	. . . . .	{from an external energy source}
1/372	. . . . .	Arrangements in connection with the implantation of stimulators	1/38	. . . . .	for producing shock effects
1/37205	. . . . .	{Microstimulators, e.g. implantable through a cannula}	1/385	. . . . .	{Devices for inducing an abnormal cardiac function, e.g. fibrillation}
1/37211	. . . . .	{Means for communicating with stimulators}	1/39	. . . . .	Heart defibrillators
1/37217	. . . . .	{characterised by the communication link, e.g. acoustic or tactile}	1/3904	. . . . .	{External heart defibrillators [EHD]}
1/37223	. . . . .	{Circuits for electromagnetic coupling}	1/39044	. . . . .	{in combination with cardiopulmonary resuscitation [CPR] therapy}
1/37229	. . . . .	{Shape or location of the implanted or external antenna}	1/39046	. . . . .	{User protection from shock}
1/37235	. . . . .	{Aspects of the external programmer}	1/3906	. . . . .	{characterised by the form of the shockwave}
1/37241	. . . . .	{providing test stimulations}	1/3912	. . . . .	{Output circuitry therefor, e.g. switches}
1/37247	. . . . .	{User interfaces, e.g. input or presentation means}	1/3918	. . . . .	{characterised by shock pathway, e.g. by electrode configuration}
1/37252	. . . . .	{Details of algorithms or data aspects of communication system, e.g. handshaking, transmitting specific data or segmenting data}	1/3925	. . . . .	{Monitoring; Protecting}
1/37254	. . . . .	{Pacemaker or defibrillator security, e.g. to prevent or inhibit programming alterations by hackers or unauthorised individuals}	1/3931	. . . . .	{Protecting, e.g. back-up systems}
1/37258	. . . . .	{Alerting the patient}	1/3937	. . . . .	{Monitoring output parameters}
1/37264	. . . . .	{Changing the program; Upgrading firmware}	1/3943	. . . . .	{for threshold determination}
1/3727	. . . . .	{characterised by the modulation technique}	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}
			1/39622	. . . . .	{Pacing therapy}
			1/39624	. . . . .	{Pain reduction therapy}
			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}	5/062	• • • {Photodynamic therapy, i.e. excitation of an agent}
1/403	• • {for thermotherapy, e.g. hyperthermia}	5/0621	• • • {Hyperbilirubinemia, jaundice treatment}
1/406	• • • {using implantable thermoseeds or injected particles for localized hyperthermia (preparations of seeds and particles A61K 41/0052)}	5/0622	• • • {Optical stimulation for exciting neural tissue}
1/44	• Applying ionised fluids ({ ion generators H01J 37/00 })	5/0624	• • • {for eliminating microbes, germs, bacteria on or in the body}
1/445	• • {Hydro-electric baths}	5/0625	• • • {Warming the body, e.g. hyperthermia treatment}
2/00	Magnetotherapy	2005/0626	• • {Monitoring, verifying, controlling systems and methods}
2/002	• {in combination with another treatment}	2005/0627	• • • {Dose monitoring systems and methods}
2/004	• {specially adapted for a specific therapy}	2005/0628	• • • • {including a radiation sensor}
2/006	• • {for magnetic stimulation of nerve tissue}	2005/0629	• • • {Sequential activation of light sources}
2/008	• • {for pain treatment or analgesia}	2005/063	• • {comprising light transmitting means, e.g. optical fibres}
2/02	• using magnetic fields produced by coils, including single turn loops or electromagnets (A61N 2/12 takes precedence)	2005/0631	• • • {using crystals}
2/06	• using magnetic fields produced by permanent magnets (A61N 2/12 takes precedence)	2005/0632	• • {Constructional aspects of the apparatus}
2/12	• using variable magnetic fields obtained by mechanical movement	2005/0633	• • • {Arrangements for lifting or hinging the frame which supports the light sources}
5/00	Radiation therapy (ultrasound therapy A61N 7/00 ; devices or apparatus applicable to both therapy and diagnosis A61B 6/00)	2005/0634	• • • {Mechanisms that allow a space saving storage of the apparatus}
2005/002	• {Cooling systems}	2005/0635	• • {characterised by the body area to be irradiated}
2005/005	• • {for cooling the radiator}	2005/0636	• • • {Irradiating the whole body}
2005/007	• • {for cooling the patient}	2005/0637	• • • • {in a horizontal position}
5/01	• Devices for producing movement of radiation source during therapy ({ A61N 5/1077 takes precedence })	2005/0638	• • • • • {with a specially adapted support surface}
5/02	• using microwaves	2005/0639	• • • • • {with additional sources directed at, e.g. the face or the feet}
5/022	• • {Apparatus adapted for a specific treatment}	2005/064	• • • • • {in a vertical position}
5/025	• • • {Warming the body, e.g. hyperthermia treatment}	2005/0641	• • • • • {with rotation of the patient}
2005/027	• • {using a phased array}	2005/0642	• • • {Irradiating part of the body at a certain distance}
5/04	• • Radiators for near-field treatment	2005/0643	• • • {Applicators, probes irradiating specific body areas in close proximity}
5/045	• • • {specially adapted for treatment inside the body}	2005/0644	• • • • {Handheld applicators}
5/06	• using light	2005/0645	• • • • {Applicators worn by the patient}
5/0601	• • {Apparatus for use inside the body}	2005/0647	• • • • • {the applicator adapted to be worn on the head}
2005/0602	• • • {for treatment of blood vessels}	2005/0648	• • • • • {the light being directed to the eyes}
5/0603	• • • {for treatment of body cavities}	2005/0649	• • • • {using suction to fix the applicator to the tissue}
2005/0604	• • • • {Lungs and/or airways}	2005/065	• • {Light sources therefor}
2005/0605	• • • • {Ear}	2005/0651	• • • {Diodes}
2005/0606	• • • • {Mouth}	2005/0652	• • • • {Arrays of diodes}
2005/0607	• • • • {Nose}	2005/0653	• • • • {Organic light emitting diodes}
2005/0608	• • • • {Rectum}	2005/0654	• • • {Lamps}
2005/0609	• • • • {Stomach and/or esophagus}	2005/0655	• • • {Tubes}
2005/061	• • • • {Bladder and/or urethra}	2005/0656	• • • {Chemical light sources}
2005/0611	• • • • {Vagina}	2005/0657	• • • {Natural light sources, e.g. captured sunlight}
2005/0612	• • • {using probes penetrating tissue; interstitial probes}	2005/0658	• • {characterised by the wavelength of light used}
5/0613	• • {Apparatus adapted for a specific treatment}	2005/0659	• • • {infra-red}
5/0614	• • • {Tanning}	2005/066	• • • • {far infrared}
2005/0615	• • • • {using UV light sources having a specific spectrum}	2005/0661	• • • {ultra-violet}
5/0616	• • • {Skin treatment other than tanning}	2005/0662	• • • {Visible light}
5/0617	• • • • {Hair treatment}	2005/0663	• • • • {Coloured light}
5/0618	• • • {Psychological treatment}	2005/0664	• • {Details}
5/0619	• • • {Acupuncture}	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}
		5/067	• • using laser light
		2005/073	• • {using polarised light}

5/10	. X-ray therapy; Gamma-ray therapy; Particle-irradiation therapy (A61N 5/01 takes precedence)	5/1047	. . . . {with movement of the radiation head during application of radiation, e.g. for intensity modulated arc therapy or IMAT}
5/1001	. . {using radiation sources introduced into or applied onto the body; brachytherapy}	5/1048	. . {Monitoring, verifying, controlling systems and methods}
5/1002	. . . {Intraluminal radiation therapy}	5/1049	. . . {for verifying the position of the patient with respect to the radiation beam}
2005/1003	. . . . {having means for centering a radioactive source within the lumen, e.g. balloons}	2005/105	. . . . {using a laser alignment system}
2005/1004	. . . . {having expandable radiation sources}	2005/1051	. . . . {using an active marker (markers in general A61B 90/39)}
2005/1005	. . . . {with asymmetrical radiation pattern}	2005/1052	. . . . {using positron emission tomography [PET] single photon emission computer tomography [SPECT] imaging}
5/1007	. . . {Arrangements or means for the introduction of sources into the body}	2005/1054	. . . . {using a portal imaging system}
2005/1008	. . . . {Apparatus for temporary insertion of sources, e.g. afterloaders}	2005/1055	. . . . {using magnetic resonance imaging [MRI]}
2005/1009	. . . . {Apparatus for loading seeds into magazines or needles}	2005/1056	. . . . {by projecting a visible image of the treatment field}
2005/101	. . . . {Magazines or cartridges for seeds}	2005/1057	. . . . {monitoring flexing of the patient support or the radiation treatment apparatus}
2005/1011	. . . . {Apparatus for permanent insertion of sources}	2005/1058	. . . . {using ultrasound imaging}
2005/1012	. . . . {Templates or grids for guiding the introduction of sources}	2005/1059	. . . . {using cameras imaging the patient}
5/1014	. . . {Intracavitary radiation therapy}	2005/1061	. . . . {using an x-ray imaging system having a separate imaging source}
5/1015	. . . . {Treatment of resected cavities created by surgery, e.g. lumpectomy}	2005/1062	. . . . . {using virtual X-ray images, e.g. digitally reconstructed radiographs [DRR]}
5/1016	. . . . {Gynaecological radiation therapy}	2005/1063	. . . . {maintaining the position when the patient is moved from an imaging to a therapy system}
5/1017	. . . . {Treatment of the eye, e.g. for "macular degeneration"}	5/1064	. . . {for adjusting radiation treatment in response to monitoring}
2005/1018	. . . . {with multiple channels for guiding radioactive sources}	5/1065	. . . . {Beam adjustment}
2005/1019	. . . {Sources therefor}	5/1067	. . . . . {in real time, i.e. during treatment}
2005/1021	. . . . {Radioactive fluid}	5/1068	. . . . {Gating the beam as a function of a physiological signal}
2005/1022	. . . . {Generators, e.g. X-ray tubes}	5/1069	. . . . {Target adjustment, e.g. moving the patient support}
2005/1023	. . . . {Means for creating a row of seeds, e.g. spacers}	5/107	. . . . . {in real time, i.e. during treatment}
2005/1024	. . . . {Seeds}	5/1071	. . . {for verifying the dose delivered by the treatment plan}
2005/1025	. . . . {Wires}	2005/1072	. . . . {taking into account movement of the target}
5/1027	. . . {Interstitial radiation therapy}	2005/1074	. . . {Details of the control system, e.g. user interfaces}
5/1028	. . . {using radiation sources applied onto the body}	5/1075	. . . {for testing, calibrating, or quality assurance of the radiation treatment apparatus}
5/1029	. . . . {Radioactive dressings}	2005/1076	. . . . {using a dummy object placed in the radiation field, e.g. phantom}
5/103	. . {Treatment planning systems}	5/1077	. . {Beam delivery systems}
5/1031	. . . {using a specific method of dose optimization}	5/1078	. . . {Fixed beam systems}
2005/1032	. . . . {Genetic optimization methods}	5/1079	. . . {Sharing a beam by multiple treatment stations}
2005/1034	. . . . {Monte Carlo type methods; particle tracking}	5/1081	. . . {Rotating beam systems with a specific mechanical construction, e.g. gantries}
2005/1035	. . . . {Simulated annealing}	5/1082	. . . . {having multiple beam rotation axes}
5/1036	. . . {Leaf sequencing algorithms}	5/1083	. . . {Robot arm beam systems}
5/1037	. . . {taking into account the movement of the target, e.g. 4D-image based planning}	5/1084	. . . {for delivering multiple intersecting beams at the same time, e.g. gamma knives}
5/1038	. . . {taking into account previously administered plans applied to the same patient, i.e. adaptive radiotherapy}	2005/1085	. . {characterised by the type of particles applied to the patient}
5/1039	. . . {using functional images, e.g. PET or MRI}	2005/1087	. . . {Ions; Protons}
2005/1041	. . . {using a library of previously administered radiation treatment applied to other patients}	2005/1088	. . . . {generated by laser radiation}
5/1042	. . {with spatial modulation of the radiation beam within the treatment head}	2005/1089	. . . {Electrons}
5/1043	. . . {Scanning the radiation beam, e.g. spot scanning or raster scanning}	2005/109	. . . {Neutrons}
5/1044	. . . . {with multiple repetitions of the scanning pattern}	2005/1091	. . . {Kilovoltage or orthovoltage range photons}
5/1045	. . . {using a multi-leaf collimator, e.g. for intensity modulated radiation therapy or IMRT}	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}