

ECLA**EUROPEAN CLASSIFICATION****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 [A61B18/00](#); anaesthetic apparatus in general A61M; incandescent lamps H01K; infra-red radiators for heating H05B)

[N: WARNING

The following IPC groups are not used in the internal ECLA classification scheme. Subject matter covered by these groups is classified in the following ECLA groups: [A61N1/34](#) covered by [A61N1/36E4](#), [A61N1/36Z3C](#) [A61N2/04](#) covered by [A61N2/02](#) [A61N5/067](#) covered by [A61N5/06](#) [A61N5/08](#) covered by [A61N5/06](#) [A61N2/08](#) covered by [A61N2/06](#) [A61N2/10](#) covered by [A61N2/06](#) [A61N5/073](#) covered by [A61N5/06](#), [K61N5/073](#)
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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 [A61B18/00](#).

A61N1/00

Electrotherapy; Circuits therefor ([A61N2/00](#) takes precedence; irradiation apparatus [A61N5/00](#))

- A61N1/02 . Details
- A61N1/02A . . [N: Digital circuitry features of electrotherapy devices, e.g. memory, clocks, processors] [N1204]
- A61N1/04 . . Electrodes [N: (electrosurgical electrodes [A61B18/14](#))]
- A61N1/04E . . . [N: for external use (A61N1/06 takes precedence)] [N1204]
- A61N1/04E1 [N: Use-related aspects] [N1204]
- A61N1/04E1E [N: Specially adapted for transcutaneous electroporation, e.g. including drug reservoirs] [N1204]
- A61N1/04E1E1 [N: Anode and cathode] [N1204]
- A61N1/04E1E1M {7 dots} [N: Material of the electrode] [N1204]
- A61N1/04E1E1S {7 dots} [N: Shape of the electrode] [N1204]
- A61N1/04E1I [N: Specially adapted for iontophoresis, e.g. AC, DC or including drug reservoirs] [N1204]
- A61N1/04E1I1 [N: Anode and cathode] [N1204]
- A61N1/04E1I1M {7 dots} [N: Material of the electrode] [N1204]
- A61N1/04E1I1S {7 dots} [N: Shape of the electrode] [N1204]
- A61N1/04E1I2 [N: Membrane] [N1204]
- A61N1/04E1I3 [N: Drug reservoir] [N1204]
- A61N1/04E1M [N: Specially adapted for transcutaneous muscle stimulation (TMS)] [N1204]

A61N1/04E1N	. . . . .	[N: Specially adapted for transcutaneous electrical nerve stimulation (TENS)] [N1204]
A61N1/04E1S	. . . . .	[N: Specially adapted for shock therapy, e.g. defibrillation] [N1204]
A61N1/04E1T	. . . . .	[N: Specially adapted for promoting tissue growth] [N1204]
A61N1/04E1W	. . . . .	[N: Specially adapted for promoting wound healing] [N1204]
A61N1/04E2	. . . . .	[N: Structure-related aspects] [N1204]
A61N1/04E2A	. . . . .	[N: Array electrodes (including any electrode arrangement with more than one electrode for at least one of the polarities)] [N1204]
A61N1/04E2C	. . . . .	[N: Electrodes characterised by a specific connection between lead and electrode] [N1204]
A61N1/04E2G	. . . . .	[N: Garment electrodes worn by the patient] [N1204]
A61N1/04E2L	. . . . .	[N: Details about the lead] [N1204]
A61N1/04E2P	. . . . .	[N: Patch electrodes (A61N1/04E1E, A61N1/04E1I take precedence)] [N1204]
A61N1/04E2P1	. . . . .	[N: characterised by using specific chemical compositions, e.g. hydrogel compositions, adhesives] [N1204]
A61N1/05	. . . . .	for implantation or insertion into the body, e.g. heart electrode (A61N1/06 takes precedence) [C1204]
A61N1/05A	. . . . .	[N: Skin piercing electrodes] [N1107]
A61N1/05C	. . . . .	[N: Subcutaneous electrodes] [N0808]
A61N1/05D	. . . . .	[N: Electrodes for the digestive system] [N1107]
A61N1/05D1	. . . . .	[N: Stomach and intestinal electrodes] [N1107]
A61N1/05D2	. . . . .	[N: Anal electrodes] [N1107]
A61N1/05D3	. . . . .	[N: Electrodes for the urinary tract] [N1107]
A61N1/05E	. . . . .	[N: Esophageal electrodes] [N1107]
A61N1/05F	. . . . .	[N: Endotracheal electrodes] [N1107]
A61N1/05G	. . . . .	[N: Genital electrodes] [N1107]
A61N1/05G1	. . . . .	[N: Vaginal electrodes] [N1107]
A61N1/05K	. . . . .	[N: Head electrodes (A61N1/05L takes precedence)] [N1107] [C1204]
A61N1/05K1	. . . . .	[N: Electrodes for brain stimulation] [N1107]
A61N1/05K1C	. . . . .	[N: Brain cortex electrodes] [N1107]
A61N1/05K1D	. . . . .	[N: Electrodes for deep brain stimulation] [N1107]
A61N1/05K1R	. . . . .	[N: Preventing neurodegenerative response or inflammatory reaction] [N1107]
A61N1/05K1S	. . . . .	[N: Anchoring of brain electrode systems, e.g. within burr hole] [N1107]
A61N1/05K2	. . . . .	[N: Cochlear electrodes] [N1107]
A61N1/05K3	. . . . .	[N: Retinal electrodes] [N1107]
A61N1/05K4	. . . . .	[N: Nasal electrodes] [N1107]
A61N1/05K5	. . . . .	[N: Oral electrodes] [N1107]
A61N1/05L	. . . . .	[N: Spinal or peripheral nerve electrodes] [N1107]
A61N1/05L2	. . . . .	[N: Paddle shaped electrodes, e.g. for laminotomy] [N1107]
A61N1/05L4	. . . . .	[N: Cuff electrodes] [N1107]
A61N1/05L8	. . . . .	[N: Anchoring or fixation means therefor] [N1107]

- A61N1/05N [N: Transvascular endocardial electrode systems]
- A61N1/05N1 [N: specially adapted for defibrillation or cardioversion] [N9812]
- A61N1/05N2 [N: Electrode heads]
- A61N1/05N2D [N: with drug delivery] [N9606]
- A61N1/05N4 [N: Anchoring means; Means for fixing the head inside the heart]
- A61N1/05N4A [N: characterised by means penetrating the heart tissue, e.g. helix needle or hook] [N9903]
- A61N1/05N4A2 {7 dots} [N: with drug delivery] [N9903]
- A61N1/05P [N: Epicardial electrode systems; Endocardial electrodes piercing the pericardium]
- A61N1/05P1 [N: Anchoring means] [N1107]
- A61N1/05P2 [N: Introducing the lead through the pericardium with a needle] [N1107]
- A61N1/05P3 [N: Temporary leads] [N1107]
- A61N1/05P4 [N: Surface area electrodes, e.g. cardiac harness] [N1107]
- A61N1/06 for high-frequency therapy
- A61N1/08 Arrangements or circuits for monitoring, protecting, controlling or indicating [N: (for heart stimulators [A61N1/37](#); for defibrillators [A61N1/39C](#); measuring electric variables [G01R](#); control of generator output in general [H02P](#), [H03L](#))] [C0309]

- A61N1/10 Applying static electricity ([applying ionised gases or vapours \[A61N1/44\]\(#\)](#))

- A61N1/14 Leading-off electric charges, e.g. by earthing [N: (carrying-off electrostatic charges, in general [H05F3/00](#))]

- A61N1/16 Screening or neutralising undesirable influences from [N: or using,] atmospheric or terrestrial radiation or fields [N: (using atmospheric electricity or earth currents [H05F3/00](#))] [C0411]

- A61N1/18 Applying electric currents by contact electrodes
- A61N1/20 continuous direct currents
- A61N1/20P [N: for promoting a biological process] [N9606]
- A61N1/22 Electromedical belts, [N: e.g. neck chains, armbands] [C9410]
- A61N1/24 with built-in power source
- A61N1/26 Electromedical brushes; Electromedical massage devices [N: (massage devices in general [A61H](#)); Combs] [C9410]
- A61N1/28 Apparatus for applying thermoelectric currents
- A61N1/30 Apparatus for iontophoresis, [N: i.e. transfer of media in ionic state by an electromotoric force into the body], or cataphoresis
- A61N1/30B [N: Constructional details (electrodes for external use [A61N1/04E1](#))] [N9410] [C1208]
- A61N1/30B4 [N: Arrangements where at least part of the apparatus is introduced into the body] [N9410]
- A61N1/32 alternating or intermittent currents [N: (applying electric fields by inductive or capacitive coupling [A61N1/40](#); microwave apparatus [A61N5/02](#))] [C9511]
- A61N1/32B [N: Electromedical belts] [C9410]
- A61N1/32C [N: Electromedical brushes, combs, massage devices] [C9410]
- A61N1/32D [N: Interference currents, i.e. treatment by several currents summed in the body] [C0411]

A61N1/32E	. . .	[N: for iontophoresis, i.e. transfer of media in ionic state by an electromotoric force into the body (electrodes for external use A61N1/04E1)] [N9410] [C1208]
A61N1/32P	. . .	[N: for promoting growth of cells, e.g. bone cells][N9606] [C0607]
A61N1/32S	. . .	[N: for enhancing the absorption properties of tissue, e.g. by electroporation] [N0509]
A61N1/32T	. . .	[N: for improving the appearance of the skin, e.g. facial toning or wrinkle treatment] [N0607]
A61N1/36	. . .	for stimulation, e.g. heart pace-makers [C1207]
A61N1/36A	. . . .	[N: of motor muscles, e.g. for walking assistance] [N9603] [C1207]
A61N1/36B	. . . .	[N: of urogenital or gastrointestinal organs, e.g. for incontinence control] [N9607] [C1207]
A61N1/36C	. . . .	[N: of respiratory organs] [N9607]
A61N1/36E	. . . .	[N: External stimulators, e.g. with patch electrodes (external pacemakers A61N1/362B)] [N0703] [C1207]
A61N1/36E2	. . . . .	[N: with leads or electrodes penetrating the skin] [N0703]
A61N1/36E4	. . . . .	[N: for treatment of pain] [N1204]
A61N1/36E6	. . . . .	[N: for treating a mental or cerebral condition] [N1204]
A61N1/36E6A	. . . . .	[N: for aversion therapy] [N1204]
A61N1/36F	. . . . .	[N: of the outer, middle or inner ear, e.g. cochlear implants] [N9607][C1207]
A61N1/36H	. . . . .	[N: for correcting spinal deformities, e.g. scoliosis] [N9607]
A61N1/36T	. . . . .	[N: of grafted tissue, e.g. skeletal muscle] [N9503] [C9603]
A61N1/36V	. . . . .	[N: of the eye] [N0301]
A61N1/36Z	. . . . .	[N: Implantable neurostimulators for stimulating central or peripheral nerve system] [N1204]
A61N1/36Z1	. . . . .	[N: adapted for vagal stimulation (A61N1/36Z3J takes precedence)] [N1204]
A61N1/36Z2	. . . . .	[N: adapted for stimulating afferent nerves] [N1204]
A61N1/36Z3	. . . . .	[N: adapted for a particular treatment] [N1204]
A61N1/36Z3A	. . . . .	[N: Epilepsy] [N1204]
A61N1/36Z3B	. . . . .	[N: Movement disorders, e.g. tremor, parkinson (stimulating motor muscle A61N1/36A)] [N1204]
A61N1/36Z3C	. . . . .	[N: Pain] [N1204]
A61N1/36Z3C1	. . . . .	{7 dots} [N: Headache, migraine] [N1204]
A61N1/36Z3D	. . . . .	[N: Inducing or controlling sleep, relaxation (non-implantable stimulator A61M21/00)] [N1204]
A61N1/36Z3E	. . . . .	[N: Cognitive or psychiatric applications, e.g. dementia, Alzheimer's, depression] [N1204]
A61N1/36Z3E1	. . . . .	{7 dots} [N: Eating disorders and obesity] [N1204]
A61N1/36Z3E2	. . . . .	{7 dots} [N: Addiction, withdrawal from substance abuse such as alcohol, drugs] [N1204]
A61N1/36Z3E3	. . . . .	{7 dots} [N: Mental training] [N1204]
A61N1/36Z3E4	. . . . .	{7 dots} [N: Mood disorders, e.g. depression, anxiety, panic disorder] [N1204]
A61N1/36Z3F	. . . . .	[N: Phantom sensations e.g. tinnitus] [N1204]
A61N1/36Z3G	. . . . .	[N: Neurorehabilitation; repair and reorganisation of neural tissue e.g. after stroke] [N1204]

A61N1/36Z3H	. . . . .	[N: Sexual dysfunction (stimulating genital organ A61N1/36B)] [N1204]
A61N1/36Z3I	. . . . .	[N: Respiration control (stimulating respiratory organ A61N1/36C)] [N1204]
A61N1/36Z3J	. . . . .	[N: Cardiac control e.g. by vagal stimulation (stimulating the heart A61N1/362)] [N1204]
A61N1/36Z3J1	. . . . .	{7 dots} [N: for treating hypertension] [N1204]
A61N1/36Z3K	. . . . .	[N: Production of neurotransmitters; modulation of gene expression] [N1204]
A61N1/36Z4	. . . . .	[N: Details of circuitry or electric components] [N1204]
A61N1/36Z5	. . . . .	[N: Control systems] [N1204]
A61N1/36Z5F	. . . . .	[N: using patient feedback] [N1204]
A61N1/36Z5G	. . . . .	[N: using a physiological parameter] [N1204]
A61N1/36Z5G1	. . . . .	{7 dots} [N: with automatic adjustment] [N1204]
A61N1/36Z5H	. . . . .	[N: for improving safety] [N1204]
A61N1/36Z5P	. . . . .	[N: specified by the stimulation parameters] [N1204]
A61N1/36Z5P1	. . . . .	{7 dots} [N: Intensity] [N1204]
A61N1/36Z5P1A	. . . . .	{8 dots} [N: Voltage] [N1204]
A61N1/36Z5P1B	. . . . .	{8 dots} [N: Current] [N1204]
A61N1/36Z5P1C	. . . . .	{8 dots} [N: Voltage density or current density] [N1204]
A61N1/36Z5P1D	. . . . .	{8 dots} [N: Subthreshold, non-excitatory signals (non-excitatory signals to the heart A61N1/362D)] [N1204]
A61N1/36Z5P2	. . . . .	{7 dots} [N: Timing, e.g. stimulation onset] [N1204]
A61N1/36Z5P2A	. . . . .	{8 dots} [N: Frequency] [N1204]
A61N1/36Z5P2B	. . . . .	{8 dots} [N: Pulse width and/or duty cycle] [N1204]
A61N1/36Z5P2C	. . . . .	{8 dots} [N: Burst or pulse train parameters] [N1204]
A61N1/36Z5P3	. . . . .	{7 dots} [N: Direction of the electrical field, e.g. with sleeve around stimulating electrode] [N1204]
A61N1/36Z5P3A	. . . . .	{8 dots} [N: Selection of the electrode configuration] [N1204]
A61N1/36Z5Q	. . . . .	[N: using a modulation technique] [N1204]
A61N1/36Z5Q1	. . . . .	{7 dots} [N: Amplitude modulation] [N1204]
A61N1/36Z5Q2	. . . . .	{7 dots} [N: Frequency modulation] [N1204]
A61N1/362	. . . . .	Heart stimulators (heart defibrillators A61N1/39)
A61N1/362A	. . . . .	[N: for treating or preventing abnormally high heart rate] [N9602]
A61N1/362A2	. . . . .	[N: comprising two or more electrodes co-operating with different heart regions] [N9603]
A61N1/362A4	. . . . .	[N: occurring in the atrium, i.e. atrial tachycardia] [N1204]
A61N1/362B	. . . . .	[N: External stimulators] [N9507]
A61N1/362C	. . . . .	[N: for treating a mechanical deficiency of the heart, e.g. congestive heart failure or cardionmyopathy] [N0309]
A61N1/362D	. . . . .	[N: using subthreshold, non-excitatory signals] [N1204]
A61N1/365	. . . . .	controlled by a physiological parameter, e.g. heart potential [N: (evoked response A61N1/37D)] [C9507]
A61N1/365A	. . . . .	[N: controlled by gradient or slope of the heart potential] [N9511]

A61N1/365B	. . . . .	[N: controlled by a physiological quantity other than heart potential, e.g. blood pressure (controlled by two or more physical parameters A61N1/365C)] [C9511]
A61N1/365B2	. . . . .	{7 dots} [N: the parameter being derivable from measurement of an electrical impedance] [N9511]
A61N1/365B4	. . . . .	{7 dots} [N: the parameter being measured by means of ultrasound] [N9511]
A61N1/365B5	. . . . .	{7 dots} [N: controlled by body position or posture] [N1204]
A61N1/365B6	. . . . .	{7 dots} [N: controlled by body motion, e.g. acceleration] [N9511]
A61N1/365B7	. . . . .	{7 dots} [N: controlled by body or blood temperature] [N9511]
A61N1/365B8	. . . . .	{7 dots} [N: controlled by chemical substances in blood] [N9511]
A61N1/365B9	. . . . .	{7 dots} [N: controlled by blood pressure] [N9511]
A61N1/365B10	. . . . .	{7 dots} [N: controlled by blood flow rate, e.g. blood velocity or cardiac output] [N1204]
A61N1/365B11	. . . . .	{7 dots} [N: controlled by mechanical motion of the heart wall, e.g. measured by an accelerometer or microphone] [N1204]
A61N1/365C	. . . . .	[N: controlled by two or more physical parameters] [N9511]
A61N1/365D	. . . . .	[N: controlled by the heart rate variability] [N1204]
A61N1/368	. . . . .	comprising more than one electrode co-operating with different heart regions [N: (A61N1/362A2 , A61N1/362C take precedence)] [C0309]
A61N1/368B	. . . . .	{7 dots} [N: with a variable atrioventricular delay] [N1204]
A61N1/368M	. . . . .	{7 dots} [N: for stimulating the heart at multiple sites of the ventricle or the atrium, e.g. biventricular stimulation] [N1204]
A61N1/368R	. . . . .	{7 dots} [N: configured for selecting the electrode configuration on a lead (A61N1/368S takes precedence)] [N1204]
A61N1/368S	. . . . .	{7 dots} [N: configured for switching the pacing mode, e.g. from AAI to DDD] [N1204]
A61N1/37	. . . . .	Monitoring; Protecting
A61N1/37B	. . . . .	[N: a physiological parameter (A61N1/365 takes precedence; evoked response A61N1/37D)] [C9507]
A61N1/37B2	. . . . .	{7 dots} [N: Circuits specially adapted therefor, e.g. for sensitivity control]
A61N1/37C	. . . . .	[N: a pacemaker parameter (stimulation threshold A61N1/37D)] [C9507]
A61N1/37C2	. . . . .	{7 dots} [N: for power depletion]
A61N1/37D	. . . . .	[N: Capture, i.e. successful stimulation] [N9507]
A61N1/37D2	. . . . .	{7 dots} [N: Autocapture, i.e. automatic adjustment of the stimulation threshold] [N9507]
A61N1/37D2A	. . . . .	{8 dots} [N: Atrial capture] [N1204]
A61N1/37D4	. . . . .	{7 dots} [N: with reduction of residual polarisation effects] [N1204]
A61N1/37E	. . . . .	[N: Monitoring of or protection against external electromagnetic fields or currents] [N1204]
A61N1/372	. . . . .	Arrangements in connection with the implantation of stimulators
A61N1/372A	. . . . .	[N: Microstimulators, e.g. implantable through a cannula] [N1204]
A61N1/372D	. . . . .	[N: Means for communicating with stimulators] [N0709]
A61N1/372D2	. . . . .	[N: characterised by the communication link, e.g. acoustic or tactile] [N0709]

A61N1/372D2E	. . . . .	{7 dots} [N: Circuits for electromagnetic coupling] [N0709]
A61N1/372D2E2	. . . . .	{8 dots} [N: Shape or location of the implanted or external antenna] [N0709]
A61N1/372D4	. . . . .	[N: Aspects of the external programmer] [N0709]
A61N1/372D4T	. . . . .	{7 dots} [N: providing test stimulations] [N1204]
A61N1/372D4U	. . . . .	{7 dots} [N: User interface, e.g. input or presentation means] [N0709]
A61N1/372D8	. . . . .	[N: Details of algorithms or data aspects of communication system, e.g. handshaking, transmitting specific data or segmenting data] [N0709]
A61N1/372D8A	. . . . .	{7 dots} [N: Alerting the patient] [N0709]
A61N1/372D8F	. . . . .	{7 dots} [N: Changing the program; Upgrading firmware] [N0709]
A61N1/372D8M	. . . . .	{7 dots} [N: characterised by the modulation technique] [N0709]
A61N1/372D8P	. . . . .	{7 dots} [N: characterised by means for reducing power consumption during telemetry] [N0709]
A61N1/372D8R	. . . . .	{7 dots} [N: characterised by communication with experts in remote locations using a network] [N0709]
A61N1/372D8S	. . . . .	{7 dots} [N: Communication to several implantable medical devices within one patient] [N0709]
A61N1/375	. . . . .	Constructional arrangements, e.g. casings
A61N1/375A	. . . . .	[N: Details of casing-lead connections] [N9801]
A61N1/375A2	. . . . .	{7 dots} [N: Feedthroughs] [N9801]
A61N1/375E	. . . . .	[N: Casings with electrodes thereon, e.g. leadless stimulators] [N1204]
A61N1/375I	. . . . .	[N: Packaging of the components within the casing] [N1204]
A61N1/378	. . . . .	Electrical supply
A61N1/378A	. . . . .	[N: producing a voltage above the power source level] [N1204]
A61N1/378B	. . . . .	[N: generated by biological activity or substance, e.g. body movement] [N9606]
A61N1/378C	. . . . .	[N: from an external energy source] [N9606]
A61N1/38	. . . . .	for producing shock effects (in general H05C1/00)
A61N1/38A	. . . . .	[N: Devices for inducing an abnormal cardiac function, e.g. fibrillation] [N9801]
A61N1/39	. . . . .	Heart defibrillators
A61N1/39A	. . . . .	[N: characterised by the form of the shockwave] [N0309]
A61N1/39A2	. . . . .	[N: Output circuitry therefor, e.g. switches] [N1204]
A61N1/39B	. . . . .	[N: characterised by shock pathway, e.g. by electrode configuration] [N9606]
A61N1/39C	. . . . .	[N: Monitoring; Protecting] [N9801]
A61N1/39C2	. . . . .	[N: Protecting, e.g. back-up systems] [N9809]
A61N1/39C4	. . . . .	[N: Monitoring output parameters] [N9809]
A61N1/39C4B	. . . . .	{7 dots} [N: for threshold determination] [N9809]
A61N1/39D	. . . . .	[N: for treating atrial fibrillation] [N1204]
A61N1/39M	. . . . .	[N: Implantable devices for applying electric shocks to the heart, e.g. for cardioversion] [N9501] [C9511]
A61N1/39M2	. . . . .	[N: in combination with another heart therapy, e.g. pacing] [N9511]

- A61N1/39N [N: Constructional arrangements, e.g. casings ([A61N1/375](#) takes precedence)] [N0309]
- A61N1/39P [N: Power supply ([A61N1/378](#) takes precedence)] [N0309]
- A61N1/39P2 [N: High voltage charging circuitry] [N1204]
- A61N1/39T [N: characterised by the timing or triggering of the shock] [N0309]
- A61N1/39U [N: User interfaces for automatic external defibrillators] [N1204]

- A61N1/40 Applying electric fields by inductive or capacitive coupling ([microwave apparatus A61N5/00](#)); [N: Applying radio-frequency signals] [C9605]
- A61N1/40T [N: for thermotherapy, e.g. hyperthermia] [N9605]
- A61N1/40T2 [N: using implantable thermoseeds or injected particles for localized hyperthermia ([preparations of seeds and particles A61K41/00U](#))] [N9906]

- A61N1/44 Applying ionised fluids [N: ([ion generators H01J37/00](#))]
- A61N1/44B [N: Hydro-electric baths]

- A61N2/00** **Magnetotherapy**

- A61N2/00C [N: in combination with another treatment]

- A61N2/00T [N: specially adapted for a specific therapy] [N0509]
- A61N2/00T2 [N: for magnetic stimulation of nerve tissue] [N0509]
- A61N2/00T4 [N: for pain treatment or analgesia] [N0607]

- A61N2/02 using magnetic fields produced by coils, including single turn loops or electromagnets ([A61N2/12](#) takes precedence)

- A61N2/06 using magnetic fields produced by permanent magnets ([A61N2/12](#) takes precedence)

- A61N2/12 using variable magnetic fields obtained by mechanical movement

- A61N5/00** **Radiation therapy** ([ultrasound therapy A61N7/00](#); devices or apparatus applicable to both therapy and diagnosis [A61B6/00](#)) [C9509]

- A61N5/01 Devices for producing movement of radiation source during therapy [N: ([A61N5/10J](#) takes precedence)]

- A61N5/02 using microwaves [C1207]
- A61N5/02C [N: Apparatus adapted for a specific treatment] [N1204]
- A61N5/02C16 [N: Warming the body, e.g. hyperthermia treatment (heating by RF [A61N1/40T](#); heating by infrared radiation [A61N5/06C16](#); heating by other appliances [A61F7/00](#); hot air bath [A61H33/06](#))] [N1204]

- A61N5/04 Radiators for near-field treatment
- A61N5/04B [N: specially adapted for treatment inside the body ([A61B18/18M](#) takes precedence)] [N0406] [C1207]

- A61N5/06 using light [C1207]
- A61N5/06B [N: Apparatus for use inside the body ([illuminating body cavities A61B1/06](#);

diagnosis by radiation applied to body cavities [A61B6/00D8](#), [A61B6/14B](#); devices for heating or cooling body cavities [A61F7/12](#); X-ray tubes having a small cross-section to facilitate introduction into small cavities [H01J35/32](#)] [C0001]

- A61N5/06B4 . . . [N: for treatment of body cavities] [N0610]
- A61N5/06C . . [N: Apparatus adapted for a specific treatment] [N9610] [C1207]
- A61N5/06C1 . . . [N: Tanning] [N9906] [C1207]
- A61N5/06C2 . . . [N: Skin treatment other than tanning] [N9610] [C1207]
- A61N5/06C2A [N: Hair treatment] [N1204]
- A61N5/06C3 . . . [N: Psychological treatment ([A61M21/00](#) takes precedence)] [N9610] [C1207]
- A61N5/06C6 . . . [N: Acupuncture ([Acupuncture in general A61H39/00](#))] [N9906] [C1207]
- A61N5/06C8 . . . [N: Photodynamic therapy, i.e. excitation of an agent] [N9906] [C1207]
- A61N5/06C9 . . . [N: Hyperbilirubinemia, jaundice treatment] [N0610] [C1207]
- A61N5/06C12 . . . [N: Optical stimulation for exciting neural tissue] [N1204]
- A61N5/06C14 . . . [N: for eliminating microbes, germs, bacteria on or in the body (sterilization by radiation [A61L2/08](#), [A61L2/10](#))] [N1204]
- A61N5/06C16 . . . [N: Warming the body, e.g. hyperthermia treatment (heating by RF [A61N1/40T](#); heating by microwave [A61N5/02C16](#); heating by other appliances [A61F7/00](#); hot air bath [A61H33/06](#))] [N1204]

- A61N5/10 . . X-ray therapy; Gamma-ray therapy; Particle-irradiation therapy ([A61N5/01](#) takes precedence; [N: radiation diagnosis, e.g. combined with radiation therapy [A61B6/00](#); irradiation devices in general [G21K1/00](#); X-ray tubes, Lenard tubes [H01J35/00](#); X-ray techniques, in particular circuits for feeding or controlling X-ray tubes, [H05G](#)]) [C0411]
- A61N5/10B . . [N: using radiation sources introduced into or applied onto the body; brachytherapy] [C1207]
- A61N5/10B1 . . . [N: Intraluminal radiation therapy ([intraluminal catheters in general A61M25/00](#))] [N9710] [C0309]
- A61N5/10B2 . . . [N: Arrangements or means for the introduction of sources into the body ([needle guides in general A61B17/34D](#); apparatus for implanting surgical devices [A61B17/34J](#); devices for implanting seeds or pellets in general [A61M37/00P](#))] [N9710] [C0309] [M1108]
- A61N5/10B4 . . . [N: Intracavitary radiation therapy] [N0309]
- A61N5/10B4E [N: Treatment of resected cavities created by surgery e.g. lumpectomy] [N0703]
- A61N5/10B4G [N: Gynaecological radiation therapy] [N0701]
- A61N5/10B4M [N: Treatment of the eye, e.g. for "macular degeneration"] [N0809]
- A61N5/10B7 . . . [N: Interstitial radiation therapy] [N0309]
- A61N5/10B9 . . . [N: using radiation sources applied onto the body] [N1204]
- A61N5/10B9D [N: Radioactive dressings (dressings in general [A61F](#), [A61L15/00](#))] [N1204]
- A61N5/10C . . [N: Treatment planning systems] [N9708] [C0211]
- A61N5/10C1 . . . [N: using a specific method of dose optimization] [N0211] [C1207]
- A61N5/10C3 . . . [N: Leaf sequencing algorithms] [N1204]
- A61N5/10C4 . . . [N: taking into account the movement of the target, e.g. 4D-image based planning] [N1204]
- A61N5/10C5 . . . [N: taking into account previously administered plans applied to the same patient, i.e. adaptive radiotherapy] [N1204]
- A61N5/10C6 . . . [N: using functional images, e.g. PET or MRI] [N1204]

- A61N5/10D . . [N: with spatial modulation of the radiation beam within the treatment head] [N9905] [C1207]
- A61N5/10D2 . . . [N: Scanning the radiation beam, e.g. spot scanning or raster scanning] [N1204]
- A61N5/10D2R [N: with multiple repetitions of the scanning pattern] [N1204]
- A61N5/10D4 . . . [N: using a multi-leaf collimator, e.g. for intensity modulated radiation therapy or IMRT] [N1204]
- A61N5/10D4A [N: with movement of the radiation head during application of radiation, e.g. for intensity modulated arc therapy or IMAT] [N1204]
- A61N5/10E . . [N: Monitoring, verifying, controlling systems and methods] [N9910] [C1207]
- A61N5/10E1 . . . [N: for verifying the position of the patient with respect to the radiation beam] [N0009] [C1207]
- A61N5/10E2 . . . [N: for adjusting radiation treatment in response to monitoring] [N1204]
- A61N5/10E2B [N: Beam adjustment] [N1204]
- A61N5/10E2B2 [N: in real time, i.e. during treatment] [N1204]
- A61N5/10E2G [N: Gating the beam as a function of a physiological signal (Gating in diagnostic systems A61B6/00F)] [N1204]
- A61N5/10E2P [N: Target adjustment, e.g. moving the patient support] [N1204]
- A61N5/10E2P2 [N: in real time, i.e. during treatment] [N1204]
- A61N5/10E4 . . . [N: for verifying the dose delivered by the treatment plan] [N1204]
- A61N5/10E8 . . . [N: for testing, calibrating, or quality assurance of the radiation treatment apparatus] [N1204]
- A61N5/10J . . [N: Beam delivery systems] [N1204]
- A61N5/10J2 . . . [N: Fixed beam systems] [N1204]
- A61N5/10J4 . . . [N: Sharing a beam by multiple treatment stations] [N1204]
- A61N5/10J6 . . . [N: Rotating beam systems with a specific mechanical construction, e.g. gantries] [N1204]
- A61N5/10J6M [N: having multiple beam rotation axes] [N1204]
- A61N5/10J8 . . . [N: Robot arm beam systems] [N1204]
- A61N5/10J10 . . . [N: for delivering multiple intersecting beams at the same time, e.g. gamma knives] [N1204]

- A61N7/00** **Ultrasound therapy** (lithotripsy [A61B17/22](#), [A61B17/225](#); massage using supersonic vibration [A61H23/00](#); [N: using ultrasound for introducing media into the body [A61M37/00U](#)]) [N0411] [C9610]
- A61N7/02 . . Localised ultrasound hyperthermia [N: (hyperthermia in general [A61F7/00](#))] [N9509] [C9610]
- A61N7/02C . . [N: intracavitary] [N9709]