

| Symbol           | Typ                 | Titel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>H</b>         | <b>Sektion</b>      | <b>SECTION H — ELECTRICITY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>H05</b>       | <b>Klasse</b>       | <b>ELECTRIC TECHNIQUES NOT OTHERWISE PROVIDED FOR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>H05H</b>      | <b>Unterklasse</b>  | <b>PLASMA TECHNIQUE (ion-beam tubes H01J 27/00; magnetohydrodynamic generators H02K 44/08; producing X-rays involving plasma generation H05G 2/00); PRODUCTION OF ACCELERATED ELECTRICALLY- CHARGED PARTICLES OR OF NEUTRONS (obtaining neutrons from radioactive sources G21, e.g. G21B, G21C, G21G); PRODUCTION OR ACCELERATION OF NEUTRAL MOLECULAR OR ATOMIC BEAMS (atomic clocks G04F 5/14; devices using stimulated emission H01S; frequency regulation by comparison with a reference frequency determined by energy levels of molecules, atoms, or subatomic particles H03L 7/26)</b> |
| <b>H05H 1/00</b> | <b>Hauptgruppe</b>  | <b>Generating plasma; Handling plasma (application of plasma technique in thermonuclear fusion reactors G21B 1/00)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| H05H 1/02        | 1-Punkt Untergruppe | . Arrangements for confining plasma by electric or magnetic fields; Arrangements for heating plasma (electron optics H01J)                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| H05H 1/03        | 2-Punkt Untergruppe | . . using electrostatic fields [3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| H05H 1/04        | 2-Punkt Untergruppe | . . using magnetic fields substantially generated by the discharge in the plasma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| H05H 1/06        | 3-Punkt Untergruppe | . . . Longitudinal pinch devices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| H05H 1/08        | 3-Punkt Untergruppe | . . . Theta pinch devices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| H05H 1/10        | 2-Punkt Untergruppe | . . using applied magnetic fields only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| H05H 1/11        | 3-Punkt Untergruppe | . . . using cusp configuration (H05H 1/14 takes precedence) [3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| H05H 1/12        | 3-Punkt Untergruppe | . . . wherein the containment vessel forms a closed loop, e.g. stellarator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| H05H 1/14        | 3-Punkt Untergruppe | . . . wherein the containment vessel is straight and has magnetic mirrors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| H05H 1/16        | 2-Punkt Untergruppe | . . using applied electric and magnetic fields                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| H05H 1/18        | 3-Punkt Untergruppe | . . . wherein the fields oscillate at a very high frequency, e.g. in the microwave range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| H05H 1/20        | 2-Punkt Untergruppe | . . Ohmic heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| H05H 1/22        | 2-Punkt Untergruppe | . . for injection heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| H05H 1/24        | 1-Punkt Untergruppe | . Generating plasma [2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| H05H 1/26        | 2-Punkt Untergruppe | . . Plasma torches [2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| H05H 1/28        | 3-Punkt Untergruppe | . . . Cooling arrangements [3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| H05H 1/30        | 3-Punkt Untergruppe | . . . using applied electromagnetic fields, e.g. high-frequency or microwave energy (H05H 1/28 takes precedence) [3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| H05H 1/32        | 3-Punkt Untergruppe | . . . using an arc (H05H 1/28 takes precedence) [3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| H05H 1/34        | 4-Punkt Untergruppe | . . . . Details, e.g. electrodes, nozzles [3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| H05H 1/36        | 5-Punkt Untergruppe | . . . . . Circuit arrangements (H05H 1/38, H05H 1/40 take precedence) [3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| H05H 1/38        | 5-Punkt Untergruppe | . . . . . Guiding or centering of electrodes [3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| H05H 1/40        | 5-Punkt Untergruppe | . . . . . using applied magnetic fields, e.g. for focusing or rotating the arc [3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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| H05H 1/42        | 4-Punkt Untergruppe | . . . with provisions for introducing materials into the plasma, e.g. powder, liquid (electrostatic spraying, spraying apparatus with means for charging the spray electrically B05B 5/00) [3]                                |
| H05H 1/44        | 4-Punkt Untergruppe | . . . using more than one torch [3]                                                                                                                                                                                           |
| H05H 1/46        | 2-Punkt Untergruppe | . . using applied electromagnetic fields, e.g. high frequency or microwave energy (H05H 1/26 takes precedence) [3]                                                                                                            |
| H05H 1/48        | 2-Punkt Untergruppe | . . using an arc (H05H 1/26 takes precedence) [3]                                                                                                                                                                             |
| H05H 1/50        | 3-Punkt Untergruppe | . . . and using applied magnetic fields, e.g. for focusing or rotating the arc [3]                                                                                                                                            |
| H05H 1/52        | 2-Punkt Untergruppe | . . using exploding wires or spark gaps (H05H 1/26 takes precedence; spark gaps in general H01T) [3]                                                                                                                          |
| H05H 1/54        | 1-Punkt Untergruppe | . Plasma accelerators [3]                                                                                                                                                                                                     |
| <b>H05H 3/00</b> | <b>Hauptgruppe</b>  | <b>Production or acceleration of neutral particle beams, e.g. molecular or atomic beams [3]</b>                                                                                                                               |
| H05H 3/02        | 1-Punkt Untergruppe | . Molecular or atomic-beam generation, e.g. resonant beam generation (gas masers H01S 1/06) [3]                                                                                                                               |
| H05H 3/04        | 1-Punkt Untergruppe | . Acceleration by electromagnetic wave pressure [3]                                                                                                                                                                           |
| H05H 3/06        | 1-Punkt Untergruppe | . Generating neutron beams (targets for producing nuclear reactions H05H 6/00; neutron sources G21G 4/02) [5]                                                                                                                 |
| <b>H05H 5/00</b> | <b>Hauptgruppe</b>  | <b>Direct voltage accelerators; Accelerators using single pulses (H05H 3/06 takes precedence) [5]</b>                                                                                                                         |
| H05H 5/02        | 1-Punkt Untergruppe | . Details (targets for producing nuclear reactions H05H 6/00) [3]                                                                                                                                                             |
| H05H 5/03        | 2-Punkt Untergruppe | . . Accelerating tubes (vessels or containers of electric discharge tubes with improved potential distribution over surface of vessel H01J 5/06; shields of X-ray tubes associated with vessels or containers H01J 35/16) [4] |
| H05H 5/04        | 1-Punkt Untergruppe | . energised by electrostatic generators, e.g. by van de Graaff generator [4]                                                                                                                                                  |
| H05H 5/06        | 1-Punkt Untergruppe | . Tandem accelerators; Multi-stage accelerators                                                                                                                                                                               |
| H05H 5/08        | 1-Punkt Untergruppe | . Particle accelerators using step-up transformers, e.g. resonance transformers [4]                                                                                                                                           |
| <b>H05H 6/00</b> | <b>Hauptgruppe</b>  | <b>Targets for producing nuclear reactions (supports for targets or objects to be irradiated G21K 5/08) [3]</b>                                                                                                               |
| <b>H05H 7/00</b> | <b>Hauptgruppe</b>  | <b>Details of devices of the types covered by groups H05H 9/00-H05H 13/00 (targets for producing nuclear reactions H05H 6/00) [3]</b>                                                                                         |
| H05H 7/02        | 1-Punkt Untergruppe | . Circuits or systems for supplying or feeding radio-frequency energy (radio-frequency generators H03B)                                                                                                                       |
| H05H 7/04        | 1-Punkt Untergruppe | . Magnet systems; Energisation thereof                                                                                                                                                                                        |
| H05H 7/06        | 1-Punkt Untergruppe | . Two-beam arrangements; Multi-beam arrangements                                                                                                                                                                              |
| H05H 7/08        | 1-Punkt Untergruppe | . Arrangements for injecting particles into orbits                                                                                                                                                                            |
| H05H 7/10        | 1-Punkt Untergruppe | . Arrangements for ejecting particles from orbits                                                                                                                                                                             |
| H05H 7/12        | 1-Punkt Untergruppe | . Arrangements for varying final energy of beam                                                                                                                                                                               |
| H05H 7/14        | 1-Punkt Untergruppe | . Vacuum chambers (H05H 5/03 takes precedence) [4]                                                                                                                                                                            |
| H05H 7/16        | 2-Punkt Untergruppe | . . of the waveguide type [4]                                                                                                                                                                                                 |
| H05H 7/18        | 2-Punkt Untergruppe | . . Cavities; Resonators [4]                                                                                                                                                                                                  |
| H05H 7/20        | 3-Punkt Untergruppe | . . . with superconductive walls [4]                                                                                                                                                                                          |
| H05H 7/22        | 1-Punkt Untergruppe | . Details of linear accelerators, e.g. drift tubes (H05H 7/02-H05H 7/20 take precedence) [4]                                                                                                                                  |

| Symbol            | Typ                 | Titel                                                                                                                                                                                                              |
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| <b>H05H 9/00</b>  | <b>Hauptgruppe</b>  | <b>Linear accelerators (H05H 11/00 takes precedence)</b>                                                                                                                                                           |
| H05H 9/02         | 1-Punkt Untergruppe | . Travelling-wave linear accelerators                                                                                                                                                                              |
| H05H 9/04         | 1-Punkt Untergruppe | . Standing-wave linear accelerators                                                                                                                                                                                |
| <b>H05H 11/00</b> | <b>Hauptgruppe</b>  | <b>Magnetic induction accelerators, e.g. betatrons</b>                                                                                                                                                             |
| H05H 11/02        | 1-Punkt Untergruppe | . Air-cored betatrons                                                                                                                                                                                              |
| H05H 11/04        | 1-Punkt Untergruppe | . Biased betatrons                                                                                                                                                                                                 |
| <b>H05H 13/00</b> | <b>Hauptgruppe</b>  | <b>Magnetic resonance accelerators; Cyclotrons</b>                                                                                                                                                                 |
| H05H 13/02        | 1-Punkt Untergruppe | . Synchrocyclotrons, i.e. frequency-modulated cyclotrons                                                                                                                                                           |
| H05H 13/04        | 1-Punkt Untergruppe | . Synchrotrons                                                                                                                                                                                                     |
| H05H 13/06        | 1-Punkt Untergruppe | . Air-cored magnetic resonance accelerators                                                                                                                                                                        |
| H05H 13/08        | 1-Punkt Untergruppe | . Alternating-gradient magnetic resonance accelerators                                                                                                                                                             |
| H05H 13/10        | 1-Punkt Untergruppe | . Accelerators comprising one or more linear accelerating sections and bending magnets or the like to return the charged particles in a trajectory parallel to the first accelerating section, e.g. microtrons [4] |
| <b>H05H 15/00</b> | <b>Hauptgruppe</b>  | <b>Methods or devices for acceleration of charged particles not otherwise provided for [4]</b>                                                                                                                     |