

| Symbol           | Typ                 | Titel                                                                                                                                                                                                                                                                                                                                                                          |
|------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>H</b>         | <b>Sektion</b>      | <b>ELECTRICITY</b>                                                                                                                                                                                                                                                                                                                                                             |
| <b>H01</b>       | <b>Klasse</b>       | <b>BASIC ELECTRIC ELEMENTS</b>                                                                                                                                                                                                                                                                                                                                                 |
| <b>H01B</b>      | <b>Unterklasse</b>  | <b>CABLES; CONDUCTORS; INSULATORS; SELECTION OF MATERIALS FOR THEIR CONDUCTIVE, INSULATING, OR DIELECTRIC PROPERTIES (selection for magnetic properties H01F 1/00; waveguides H01P; installation of cables or lines, or of combined optical and electric, cables or lines H02G)</b>                                                                                            |
| <b>H01B 1/00</b> | <b>Hauptgruppe</b>  | <b>Conductors or conductive bodies characterised by the conductive materials; Selection of materials as conductors (superconductive or hyperconductive conductors, cables, or transmission lines characterised by the materials H01B 12/00; resistors H01C; details of devices using superconductivity or hyperconductivity, characterised by the material H01L 39/12) [4]</b> |
| H01B 1/02        | 1-Punkt Untergruppe | . mainly consisting of metals or alloys                                                                                                                                                                                                                                                                                                                                        |
| H01B 1/04        | 1-Punkt Untergruppe | . mainly consisting of carbon-silicon compounds, carbon, or silicon                                                                                                                                                                                                                                                                                                            |
| H01B 1/06        | 1-Punkt Untergruppe | . mainly consisting of other non-metallic substances                                                                                                                                                                                                                                                                                                                           |
| H01B 1/08        | 2-Punkt Untergruppe | . . oxides                                                                                                                                                                                                                                                                                                                                                                     |
| H01B 1/10        | 2-Punkt Untergruppe | . . sulfides                                                                                                                                                                                                                                                                                                                                                                   |
| H01B 1/12        | 2-Punkt Untergruppe | . . organic substances [3]                                                                                                                                                                                                                                                                                                                                                     |
| H01B 1/14        | 1-Punkt Untergruppe | . Conductive material dispersed in non-conductive inorganic material [3]                                                                                                                                                                                                                                                                                                       |
| H01B 1/16        | 2-Punkt Untergruppe | . . the conductive material comprising metals or alloys [3]                                                                                                                                                                                                                                                                                                                    |
| H01B 1/18        | 2-Punkt Untergruppe | . . the conductive material comprising carbon-silicon compounds, carbon, or silicon [3]                                                                                                                                                                                                                                                                                        |
| H01B 1/20        | 1-Punkt Untergruppe | . Conductive material dispersed in non-conductive organic material [3]                                                                                                                                                                                                                                                                                                         |
| H01B 1/22        | 2-Punkt Untergruppe | . . the conductive material comprising metals or alloys [3]                                                                                                                                                                                                                                                                                                                    |
| H01B 1/24        | 2-Punkt Untergruppe | . . the conductive material comprising carbon-silicon compounds, carbon, or silicon [3]                                                                                                                                                                                                                                                                                        |
| <b>H01B 3/00</b> | <b>Hauptgruppe</b>  | <b>Insulators or insulating bodies characterised by the insulating materials; Selection of materials for their insulating or dielectric properties (selection of piezo-electric or electrostrictive materials H01L 41/00)</b>                                                                                                                                                  |
| H01B 3/02        | 1-Punkt Untergruppe | . mainly consisting of inorganic substances                                                                                                                                                                                                                                                                                                                                    |
| H01B 3/04        | 2-Punkt Untergruppe | . . mica                                                                                                                                                                                                                                                                                                                                                                       |
| H01B 3/06        | 2-Punkt Untergruppe | . . asbestos                                                                                                                                                                                                                                                                                                                                                                   |
| H01B 3/08        | 2-Punkt Untergruppe | . . quartz; glass; glass wool; slag wool; vitreous enamels                                                                                                                                                                                                                                                                                                                     |
| H01B 3/10        | 2-Punkt Untergruppe | . . metallic oxides (ceramics H01B 3/12)                                                                                                                                                                                                                                                                                                                                       |
| H01B 3/12        | 2-Punkt Untergruppe | . . ceramics                                                                                                                                                                                                                                                                                                                                                                   |
| H01B 3/14        | 2-Punkt Untergruppe | . . cements                                                                                                                                                                                                                                                                                                                                                                    |
| H01B 3/16        | 2-Punkt Untergruppe | . . gases                                                                                                                                                                                                                                                                                                                                                                      |
| H01B 3/18        | 1-Punkt Untergruppe | . mainly consisting of organic substances                                                                                                                                                                                                                                                                                                                                      |
| H01B 3/20        | 2-Punkt Untergruppe | . . liquids, e.g. oils (silicone oils H01B 3/46)                                                                                                                                                                                                                                                                                                                               |
| H01B 3/22        | 3-Punkt Untergruppe | . . . hydrocarbons                                                                                                                                                                                                                                                                                                                                                             |

| Symbol           | Typ                        | Titel                                                                                                                                                                                                                                  |
|------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H01B 3/24        | 3-Punkt Untergruppe        | . . . containing halogen in the molecules, e.g. halogenated oils                                                                                                                                                                       |
| H01B 3/26        | 2-Punkt Untergruppe        | . . asphalts; bitumens; pitches                                                                                                                                                                                                        |
| H01B 3/28        | 2-Punkt Untergruppe        | . . natural or synthetic rubbers                                                                                                                                                                                                       |
| H01B 3/30        | 2-Punkt Untergruppe        | . . resins; waxes                                                                                                                                                                                                                      |
| H01B 3/32        | 3-Punkt Untergruppe        | . . . natural resins                                                                                                                                                                                                                   |
| H01B 3/34        | 3-Punkt Untergruppe        | . . . waxes (silicone waxes H01B 3/46)                                                                                                                                                                                                 |
| H01B 3/36        | 3-Punkt Untergruppe        | . . . condensation products of phenols with aldehydes or ketones                                                                                                                                                                       |
| H01B 3/38        | 3-Punkt Untergruppe        | . . . condensation products of aldehydes with amines or amides                                                                                                                                                                         |
| H01B 3/40        | 3-Punkt Untergruppe        | . . . epoxy resins                                                                                                                                                                                                                     |
| H01B 3/42        | 3-Punkt Untergruppe        | . . . polyesters; polyethers; polyacetals                                                                                                                                                                                              |
| H01B 3/44        | 3-Punkt Untergruppe        | . . . vinyl resins; acrylic resins (silicones H01B 3/46)                                                                                                                                                                               |
| H01B 3/46        | 3-Punkt Untergruppe        | . . . silicones                                                                                                                                                                                                                        |
| H01B 3/48        | 2-Punkt Untergruppe        | . . fibrous materials                                                                                                                                                                                                                  |
| H01B 3/50        | 3-Punkt Untergruppe        | . . . fabric                                                                                                                                                                                                                           |
| H01B 3/52        | 3-Punkt Untergruppe        | . . . wood; paper; pressboard (insulating paper per se D21H 27/12)                                                                                                                                                                     |
| H01B 3/54        | 3-Punkt Untergruppe        | . . . hard paper; hard fabrics                                                                                                                                                                                                         |
| H01B 3/56        | 2-Punkt Untergruppe        | . . gases                                                                                                                                                                                                                              |
| <b>H01B 5/00</b> | <b>Hauptgruppe</b>         | <b>Non-insulated conductors or conductive bodies characterised by their form</b>                                                                                                                                                       |
| <i>H01B 5/02</i> | <i>1-Punkt Untergruppe</i> | <i>. Single bars, rods, wires or strips ; Bus-bars ( aspects of connection with their counterparts H01R 25/00 ; bus-bar layouts H02B 1/20 ; installations of bus-bars H02G 5/00 ) [1, 7]</i>                                           |
| H01B 5/04        | 2-Punkt Untergruppe        | . . wound or coiled                                                                                                                                                                                                                    |
| H01B 5/06        | 1-Punkt Untergruppe        | . Single tubes                                                                                                                                                                                                                         |
| H01B 5/08        | 1-Punkt Untergruppe        | . Several wires or the like stranded in the form of a rope                                                                                                                                                                             |
| H01B 5/10        | 2-Punkt Untergruppe        | . . stranded around a space, insulating material, or dissimilar conducting material                                                                                                                                                    |
| H01B 5/12        | 1-Punkt Untergruppe        | . Braided wires or the like                                                                                                                                                                                                            |
| H01B 5/14        | 1-Punkt Untergruppe        | . comprising conductive layers or films on insulating-supports (insulating-layers or insulating-films on metal bodies H01B 17/62)                                                                                                      |
| H01B 5/16        | 1-Punkt Untergruppe        | . comprising conductive material in insulating or poorly conductive material, e.g. conductive rubber (H01B 1/14 , H01B 1/20 take precedence; insulating bodies with conductive admixtures H01B 17/64; conductive paints C09D 5/24) [3] |
| <b>H01B 7/00</b> | <b>Hauptgruppe</b>         | <b>Insulated conductors or cables characterised by their form</b>                                                                                                                                                                      |
| H01B 7/02        | 1-Punkt Untergruppe        | . Disposition of insulation (materials H01B 3/00; insulators H01B 17/00)                                                                                                                                                               |
| H01B 7/04        | 1-Punkt Untergruppe        | . Flexible cables, conductors, or cords, e.g. trailing cables                                                                                                                                                                          |
| H01B 7/06        | 1-Punkt Untergruppe        | . Extensible conductors or cables, e.g. self-coiling cords (arrangements for storing and repeatedly paying-out and re-storing lengths of conductors or cables B65H 75/34)                                                              |

| Symbol            | Typ                 | Titel                                                                                                                                                                                                                                                  |
|-------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H01B 7/08         | 1-Punkt Untergruppe | . Flat or ribbon cables                                                                                                                                                                                                                                |
| H01B 7/10         | 1-Punkt Untergruppe | . Contact cables, i.e. having conductors which may be brought into contact by distortion of the cable                                                                                                                                                  |
| H01B 7/12         | 1-Punkt Untergruppe | . Floating cables (installations of cables supported on or from floats H02G 9/12)                                                                                                                                                                      |
| H01B 7/14         | 1-Punkt Untergruppe | . Submarine cables                                                                                                                                                                                                                                     |
| H01B 7/16         | 1-Punkt Untergruppe | . Rigid-tube cables (heating elements of similar construction H05B)                                                                                                                                                                                    |
| H01B 7/17         | 1-Punkt Untergruppe | . <i>Protection against damage caused by external factors, e.g. sheaths or armouring ( power cables with screens H01B 9/02 ; communication cables with screens H01B 11/06 ; installation of conduits H02G ) [7]</i>                                    |
| H01B 7/18         | 2-Punkt Untergruppe | . . <i>by wear, mechanical force or pressure [1, 7]</i>                                                                                                                                                                                                |
| H01B 7/20         | 3-Punkt Untergruppe | . . . <i>Metal tubes, e.g. lead sheaths [1, 7]</i>                                                                                                                                                                                                     |
| H01B 7/22         | 3-Punkt Untergruppe | . . . <i>Metal wires or tapes, e.g. made of steel [1, 7]</i>                                                                                                                                                                                           |
| H01B 7/24         | 3-Punkt Untergruppe | . . . <i>Devices affording localised protection against mechanical force or pressure [1, 7]</i>                                                                                                                                                        |
| H01B 7/26         | 3-Punkt Untergruppe | . . . <i>Reduction of losses in sheaths or armouring [1, 7]</i>                                                                                                                                                                                        |
| H01B 7/28         | 2-Punkt Untergruppe | . . <i>by moisture, corrosion, chemical attack or weather [1, 7]</i>                                                                                                                                                                                   |
| H01B 7/282        | 3-Punkt Untergruppe | . . . <i>Preventing penetration of fluid into conductor or cable ( insulators or insulating bodies with surfaces specially treated for preserving insulating properties, e.g. for protection against moisture, dirt, or the like, H01B 17/50 ) [7]</i> |
| H01B 7/285        | 4-Punkt Untergruppe | . . . . <i>by completely or partially filling interstices in the cable [7]</i>                                                                                                                                                                         |
| H01B 7/288        | 5-Punkt Untergruppe | . . . . . <i>using hygroscopic material or material swelling in the presence of liquid [7]</i>                                                                                                                                                         |
| H01B 7/29         | 2-Punkt Untergruppe | . . <i>by extremes of temperature or by flame ( H01B 7/42 takes precedence ) [7]</i>                                                                                                                                                                   |
| H01B 7/295        | 3-Punkt Untergruppe | . . . <i>using material resistant to flame [7]</i>                                                                                                                                                                                                     |
| H01B 7/30         | 1-Punkt Untergruppe | . with arrangements for reducing conductor losses when carrying ac, e.g. due to skin effect                                                                                                                                                            |
| H01B 7/32         | 1-Punkt Untergruppe | . with arrangements for indicating defects, e.g. breaks, leaks (locating defects by measuring G01)                                                                                                                                                     |
| H01B 7/34         | Gelöscht            | (transferred to H01B 7/29; H01B 7/42)                                                                                                                                                                                                                  |
| H01B 7/36         | 1-Punkt Untergruppe | . with distinguishing or length marks                                                                                                                                                                                                                  |
| H01B 7/38         | 1-Punkt Untergruppe | . <i>with arrangements for facilitating removal of insulation [7]</i>                                                                                                                                                                                  |
| H01B 7/40         | 1-Punkt Untergruppe | . <i>with arrangements for facilitating mounting or securing [7]</i>                                                                                                                                                                                   |
| H01B 7/42         | 1-Punkt Untergruppe | . <i>with arrangements for heat dissipation or conduction ( insulators or insulating bodies having heating or cooling devices H01B 17/54 ) [7]</i>                                                                                                     |
| <b>H01B 9/00</b>  | <b>Hauptgruppe</b>  | <b>Power cables</b>                                                                                                                                                                                                                                    |
| H01B 9/02         | 1-Punkt Untergruppe | . with screens or conductive layers, e.g. for avoiding large potential gradients                                                                                                                                                                       |
| H01B 9/04         | 1-Punkt Untergruppe | . Concentric cables                                                                                                                                                                                                                                    |
| H01B 9/06         | 1-Punkt Untergruppe | . Gas-pressure cables; Oil-pressure cables; Cables for use in conduits under fluid pressure                                                                                                                                                            |
| <b>H01B 11/00</b> | <b>Hauptgruppe</b>  | <b>Communication cables or conductors (waveguides H01P)</b>                                                                                                                                                                                            |
| H01B 11/02        | 1-Punkt Untergruppe | . Cables with twisted pairs or quads (transposing, crossing, or twisting at joints H04B; balancing of earth capacitance H04B)                                                                                                                          |

| Symbol             | Typ                        | Titel                                                                                                                                                                                                                                                                                                        |
|--------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H01B 11/04         | 2-Punkt Untergruppe        | . . with pairs or quads mutually positioned to reduce cross-talk (balancing by making use of additional capacitors or coils H04B)                                                                                                                                                                            |
| H01B 11/06         | 2-Punkt Untergruppe        | . . with means for reducing effects of electromagnetic or electrostatic disturbances, e.g. screen (screening in general H05K 9/00)                                                                                                                                                                           |
| H01B 11/08         | 3-Punkt Untergruppe        | . . . Screens specially adapted for reducing cross-talk                                                                                                                                                                                                                                                      |
| H01B 11/10         | 3-Punkt Untergruppe        | . . . Screens specially adapted for reducing interference from external sources                                                                                                                                                                                                                              |
| H01B 11/12         | 2-Punkt Untergruppe        | . . Arrangements for exhibiting specific transmission characteristics (loading coils per se H01F 17/08; coil-loaded circuits H04B)                                                                                                                                                                           |
| H01B 11/14         | 3-Punkt Untergruppe        | . . . Continuously inductively loaded cables, e.g. Krarup cables                                                                                                                                                                                                                                             |
| H01B 11/16         | 3-Punkt Untergruppe        | . . . Cables, e.g. submarine cable, with coils or other devices incorporated during cable manufacture (junction boxes for cables H02G 15/10)                                                                                                                                                                 |
| H01B 11/18         | 1-Punkt Untergruppe        | . Coaxial cables; Analogous cables having more than one inner conductor within a common outer conductor (suitable for handling frequencies considerably beyond the audio range H01P 3/06)                                                                                                                    |
| H01B 11/20         | 2-Punkt Untergruppe        | . . Cables having a multiplicity of coaxial lines [3]                                                                                                                                                                                                                                                        |
| H01B 11/22         | 1-Punkt Untergruppe        | . Cables including at least one electrical conductor together with optical fibres [4]                                                                                                                                                                                                                        |
| <b>H01B 12/00</b>  | <b>Hauptgruppe</b>         | <b>Superconductive or hyperconductive conductors, cables, or transmission lines (superconductors characterised by the ceramic-forming technique or the ceramic composition C04B 35/00; details or devices using superconductivity or hyperconductivity characterised by the material H01L 39/12 ) [2, 4]</b> |
| H01B 12/02         | 1-Punkt Untergruppe        | . characterised by their form [4]                                                                                                                                                                                                                                                                            |
| H01B 12/04         | 2-Punkt Untergruppe        | . . Single wire [4]                                                                                                                                                                                                                                                                                          |
| H01B 12/06         | 2-Punkt Untergruppe        | . . Films or wires on bases or cores [4]                                                                                                                                                                                                                                                                     |
| H01B 12/08         | 2-Punkt Untergruppe        | . . Stranded or braided wires [4]                                                                                                                                                                                                                                                                            |
| H01B 12/10         | 2-Punkt Untergruppe        | . . Multi-filaments embedded in normal conductors [4]                                                                                                                                                                                                                                                        |
| H01B 12/12         | 2-Punkt Untergruppe        | . . Hollow conductors [4]                                                                                                                                                                                                                                                                                    |
| H01B 12/14         | 1-Punkt Untergruppe        | . characterised by the disposition of thermal insulation [4]                                                                                                                                                                                                                                                 |
| H01B 12/16         | 1-Punkt Untergruppe        | . characterised by cooling [4]                                                                                                                                                                                                                                                                               |
| <b>H01B 13/00</b>  | <b>Hauptgruppe</b>         | <b>Apparatus or processes specially adapted for manufacturing conductors or cables</b>                                                                                                                                                                                                                       |
| <i>H01B 13/004</i> | <i>1-Punkt Untergruppe</i> | <i>. . for manufacturing rigid-tube cables [7]</i>                                                                                                                                                                                                                                                           |
| <i>H01B 13/008</i> | <i>1-Punkt Untergruppe</i> | <i>. . for manufacturing extensible conductors or cables [7]</i>                                                                                                                                                                                                                                             |
| <i>H01B 13/012</i> | <i>1-Punkt Untergruppe</i> | <i>. . for manufacturing wire harnesses [7]</i>                                                                                                                                                                                                                                                              |
| <i>H01B 13/016</i> | <i>1-Punkt Untergruppe</i> | <i>. . for manufacturing co-axial cables ( applying discontinuous insulation H01B 13/20 ) [7]</i>                                                                                                                                                                                                            |
| H01B 13/02         | 1-Punkt Untergruppe        | . Stranding-up (stranding-up ropes D07B)                                                                                                                                                                                                                                                                     |
| H01B 13/04         | 2-Punkt Untergruppe        | . . Mutually-positioning pairs or quads to reduce cross-talk                                                                                                                                                                                                                                                 |
| H01B 13/06         | 1-Punkt Untergruppe        | . Insulating conductors or cables (H01B 13/32 takes precedence) [4]                                                                                                                                                                                                                                          |
| H01B 13/08         | 2-Punkt Untergruppe        | . . by winding                                                                                                                                                                                                                                                                                               |
| H01B 13/10         | 2-Punkt Untergruppe        | . . by longitudinal lapping                                                                                                                                                                                                                                                                                  |

| Symbol            | Typ                        | Titel                                                                                                                                                                                                                                                          |
|-------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H01B 13/12        | 2-Punkt Untergruppe        | . . by applying loose fibres                                                                                                                                                                                                                                   |
| H01B 13/14        | 2-Punkt Untergruppe        | . . by extrusion                                                                                                                                                                                                                                               |
| H01B 13/16        | 2-Punkt Untergruppe        | . . by passing through, or dipping in, a liquid bath; by spraying                                                                                                                                                                                              |
| H01B 13/18        | 2-Punkt Untergruppe        | . . Applying discontinuous insulation, e.g. discs, beads                                                                                                                                                                                                       |
| H01B 13/20        | 3-Punkt Untergruppe        | . . . for concentric or coaxial cables                                                                                                                                                                                                                         |
| H01B 13/22        | 1-Punkt Untergruppe        | . Sheathing; Armouring; Screening; Applying other protective layers (H01B 13/32 takes precedence) [4]                                                                                                                                                          |
| H01B 13/24        | 2-Punkt Untergruppe        | . . by extrusion                                                                                                                                                                                                                                               |
| H01B 13/26        | 2-Punkt Untergruppe        | . . by winding, braiding, or longitudinal lapping (winding in general B65H)                                                                                                                                                                                    |
| H01B 13/28        | 1-Punkt Untergruppe        | . Applying continuous inductive loading, e.g. Krarup loading                                                                                                                                                                                                   |
| H01B 13/30        | 1-Punkt Untergruppe        | . Drying (in general F26B); Impregnating (H01B 13/32 takes precedence) [4]                                                                                                                                                                                     |
| H01B 13/32        | 1-Punkt Untergruppe        | . Filling or coating with impervious material (for cable installations H02G 15/00) [4]                                                                                                                                                                         |
| <i>H01B 13/34</i> | <i>1-Punkt Untergruppe</i> | <i>. . for marking conductors or cables [7]</i>                                                                                                                                                                                                                |
| <b>H01B 15/00</b> | <b>Hauptgruppe</b>         | <b>Apparatus or processes for salvaging material from cables (insulated conductors or cables with arrangements for facilitating removal of insulation H01B 7/38; methods or apparatus specially adapted for removing insulation from conductors H02G 1/12)</b> |
| <b>H01B 17/00</b> | <b>Hauptgruppe</b>         | <b>Insulators or insulating bodies characterised by their form (section insulators for electric traction B60M 1/18; insulating rail-joints E01B 11/54)</b>                                                                                                     |
| H01B 17/02        | 1-Punkt Untergruppe        | . Suspension insulators; Strain insulators                                                                                                                                                                                                                     |
| H01B 17/04        | 2-Punkt Untergruppe        | . . Chains; Multiple chains                                                                                                                                                                                                                                    |
| H01B 17/06        | 2-Punkt Untergruppe        | . . Fastening of insulator to support, to conductor, or to adjoining insulator                                                                                                                                                                                 |
| H01B 17/08        | 3-Punkt Untergruppe        | . . . by cap-and-bolt                                                                                                                                                                                                                                          |
| H01B 17/10        | 3-Punkt Untergruppe        | . . . by intermediate link                                                                                                                                                                                                                                     |
| H01B 17/12        | 2-Punkt Untergruppe        | . . Special features of strain insulators (devices for relieving mechanical tension of electric lines or cables H02G 7/04)                                                                                                                                     |
| H01B 17/14        | 1-Punkt Untergruppe        | . Supporting insulators (pin insulators H01B 17/20; apertured insulators H01B 17/24)                                                                                                                                                                           |
| H01B 17/16        | 2-Punkt Untergruppe        | . . Fastening of insulators to support, to conductor, or to adjoining insulator                                                                                                                                                                                |
| H01B 17/18        | 2-Punkt Untergruppe        | . . for very heavy conductors, e.g. bus-bars, rails                                                                                                                                                                                                            |
| H01B 17/20        | 1-Punkt Untergruppe        | . Pin insulators                                                                                                                                                                                                                                               |
| H01B 17/22        | 2-Punkt Untergruppe        | . . Fastening of conductors to insulator                                                                                                                                                                                                                       |
| H01B 17/24        | 1-Punkt Untergruppe        | . Insulators apertured for fixing by nail, screw, wire, or bar, e.g. diablo, bobbin                                                                                                                                                                            |
| H01B 17/26        | 1-Punkt Untergruppe        | . Lead-in insulators; Lead-through insulators                                                                                                                                                                                                                  |
| H01B 17/28        | 2-Punkt Untergruppe        | . . Capacitor type (capacitors H01G)                                                                                                                                                                                                                           |
| H01B 17/30        | 2-Punkt Untergruppe        | . . Sealing (packings in general F16)                                                                                                                                                                                                                          |
| H01B 17/32        | 1-Punkt Untergruppe        | . Single insulators consisting of two or more dissimilar insulating bodies                                                                                                                                                                                     |
| H01B 17/34        | 1-Punkt Untergruppe        | . Insulators containing liquid, e.g. oil                                                                                                                                                                                                                       |

| Symbol            | Typ                 | Titel                                                                                                                                                        |
|-------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H01B 17/36        | 1-Punkt Untergruppe | . Insulators having evacuated or gas-filled spaces                                                                                                           |
| H01B 17/38        | 1-Punkt Untergruppe | . Fittings, e.g. caps; Fastenings therefor                                                                                                                   |
| H01B 17/40        | 2-Punkt Untergruppe | . . Cementless fittings                                                                                                                                      |
| H01B 17/42        | 1-Punkt Untergruppe | . Means for obtaining improved distribution of voltage (capacitor-type lead-through insulators H01B 17/28); Protection against arc discharges                |
| H01B 17/44        | 2-Punkt Untergruppe | . . Structural association of insulators with corona rings (corona rings H01T 19/02)                                                                         |
| H01B 17/46        | 2-Punkt Untergruppe | . . Means for providing an external arc-discharge path (spark-gap arresters H01T)                                                                            |
| H01B 17/48        | 2-Punkt Untergruppe | . . over chains or other serially-arranged insulators                                                                                                        |
| H01B 17/50        | 1-Punkt Untergruppe | . with surfaces specially treated for preserving insulating properties, e.g. for protection against moisture, dirt, or the like                              |
| H01B 17/52        | 1-Punkt Untergruppe | . having cleaning devices (H01B 17/54 takes precedence)                                                                                                      |
| H01B 17/54        | 1-Punkt Untergruppe | . having heating or cooling devices                                                                                                                          |
| H01B 17/56        | 1-Punkt Untergruppe | . Insulating bodies (insulators H01B 17/02 to H01B 17/54)                                                                                                    |
| H01B 17/58        | 2-Punkt Untergruppe | . . Tubes, sleeves, beads, or bobbins through which the conductor passes (protective tubings for the installation of lines or cables in buildings H02G 3/04) |
| H01B 17/60        | 2-Punkt Untergruppe | . . Composite insulating bodies (cables or conductors H01B 7/00 , H01B 9/00; resistors H01C; capacitors H01G )                                               |
| H01B 17/62        | 2-Punkt Untergruppe | . . Insulating-layers or insulating-films on metal bodies (conductive layers or films on insulating bodies H01B 5/14)                                        |
| H01B 17/64        | 2-Punkt Untergruppe | . . with conductive admixtures, inserts, or layers (conductive bodies comprising conductive material dispersed in insulating material H01B 5/16)             |
| H01B 17/66        | 2-Punkt Untergruppe | . . Joining insulating bodies together, e.g. by bonding                                                                                                      |
| <b>H01B 19/00</b> | <b>Hauptgruppe</b>  | <b>Apparatus or processes specially adapted for manufacturing insulators or insulating bodies</b>                                                            |
| H01B 19/02        | 1-Punkt Untergruppe | . Drying (in general F26B); Impregnating                                                                                                                     |
| H01B 19/04        | 1-Punkt Untergruppe | . Treating the surfaces, e.g. applying coatings                                                                                                              |