### CPC COOPERATIVE PATENT CLASSIFICATION

**H** ELECTRICITY

**(NOTE omitted)**

**H02** GENERATION; CONVERSION OR DISTRIBUTION OF ELECTRIC POWER

**H02G** INSTALLATION OF ELECTRIC CABLES OR LINES, OR OF COMBINED OPTICAL AND ELECTRIC CABLES OR LINES (distribution points incorporating switches H02B; guiding telephone cords H04M 1/15; cable ducts or mountings for telephone or telegraph exchange installations H04Q 1/06)

### NOTES

1. This subclass covers installation of communication cables or lines, including those comprising a combination of optical and electrical conductors, or of lightning conductors as well as installation of power cables or lines.
2. This subclass does not cover installation of purely optical cables, which is covered by groups G02B 6/4401, G02B 6/46.
3. In this subclass, the following expression is used with the meaning indicated:
   - "electric cable" includes cables comprising optical conductors, e.g. fibres, in combination with electrical conductors.
4. In this subclass it is desirable to add indexing codes of group H02G 2200/00 whenever appropriate

### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>1/00</td>
<td>Methods or apparatus specially adapted for installing, maintaining, repairing or dismantling electric cables or lines</td>
</tr>
<tr>
<td>1/005</td>
<td>for cutting cables or wires, or splicing</td>
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<tr>
<td>1/02</td>
<td>for overhead lines or cables</td>
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<tr>
<td>1/04</td>
<td>for laying cables, e.g. laying apparatus on vehicle (combined with trench digging or back-filling machines or dredgers E02F 5/00)</td>
</tr>
<tr>
<td>1/06</td>
<td>through tubing or conduit, e.g. rod or draw wire for pushing or pulling (inserting electrical cables into tubes using wallbores E21B 17/206; for optical cables G02B 6/4401)</td>
</tr>
<tr>
<td>1/081</td>
<td>using pulling means at cable ends, e.g. pulling eyes or anchors</td>
</tr>
<tr>
<td>1/083</td>
<td>using lines, e.g. needles, rods or tapes</td>
</tr>
<tr>
<td>1/085</td>
<td>using portable tools</td>
</tr>
<tr>
<td>1/086</td>
<td>using fluid as pulling means, e.g. liquid, pressurised gas or suction means</td>
</tr>
<tr>
<td>1/088</td>
<td>using pulling devices movable inside conduits</td>
</tr>
<tr>
<td>1/10</td>
<td>in or under water</td>
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<tr>
<td>1/12</td>
<td>for removing insulation or armouring from cables, e.g. from the end thereof (pliers in general B25B; cutters in general B26B)</td>
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<tr>
<td>1/1202</td>
<td>by cutting and withdrawing insulation</td>
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<tr>
<td>1/1204</td>
<td>Hand-held tools</td>
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<tr>
<td>1/1207</td>
<td>the cutting element not rotating about the wire or cable (making longitudinal and transverse or helical cut H02G 1/1229)</td>
</tr>
<tr>
<td>1/1209</td>
<td>making a transverse cut</td>
</tr>
<tr>
<td>1/1212</td>
<td>using wire or cable clamping means</td>
</tr>
<tr>
<td>1/1214</td>
<td>not using wire or cable clamping means</td>
</tr>
<tr>
<td>1/1217</td>
<td>making a longitudinal cut</td>
</tr>
<tr>
<td>1/1219</td>
<td>making a transverse and longitudinal cut</td>
</tr>
<tr>
<td>1/1221</td>
<td>the cutting element rotating about the wire or cable (making longitudinal and transverse or helical cut H02G 1/1229)</td>
</tr>
<tr>
<td>1/1224</td>
<td>making a transverse cut</td>
</tr>
<tr>
<td>1/1226</td>
<td>making a helical cut</td>
</tr>
<tr>
<td>1/1229</td>
<td>the cutting element making a longitudinal, and a transverse or a helical cut</td>
</tr>
<tr>
<td>1/1228</td>
<td>using a swivelling cutting element</td>
</tr>
<tr>
<td>1/1228</td>
<td>the tool being of the plier type</td>
</tr>
<tr>
<td>1/1226</td>
<td>Features relating to cutting elements</td>
</tr>
<tr>
<td>1/1229</td>
<td>the cutting element being a disc or a circular saw</td>
</tr>
<tr>
<td>1/1241</td>
<td>the cutting element being a stack of blades</td>
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<tr>
<td>1/1243</td>
<td>the cutting element being a wire or filament</td>
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<tr>
<td>1/1246</td>
<td>the cutting element being of tubular construction</td>
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<tr>
<td>1/1248</td>
<td>Machines</td>
</tr>
<tr>
<td>1/1251</td>
<td>the cutting element not rotating about the wire or cable (making longitudinal and transverse or helical cut H02G 1/1229)</td>
</tr>
<tr>
<td>1/1253</td>
<td>making a transverse cut</td>
</tr>
<tr>
<td>1/1256</td>
<td>using wire or cable-clamping means</td>
</tr>
<tr>
<td>1/1258</td>
<td>not using wire or cable-clamping means</td>
</tr>
<tr>
<td>1/126</td>
<td>making a longitudinal cut</td>
</tr>
<tr>
<td>1/1263</td>
<td>making a transverse and longitudinal cut</td>
</tr>
<tr>
<td>1/1265</td>
<td>the cutting element rotating about the wire or cable (making longitudinal and transverse or helical cut H02G 1/1229)</td>
</tr>
</tbody>
</table>
3/0633 . . . . . . . [with means urging the conductors to follow a non-straight line]
3/0641 . . . . . . . [with means distorted around the conductors]
3/065 . . . . . . . [with means biting into the conductor-insulation, e.g. teeth-like elements or gripping fingers (H02G 3/0675, H02G 3/0683 take precedence)]
3/0658 . . . . . . . [with means constracting the conductor-insulation (H02G 3/0675, H02G 3/0683 take precedence)]
3/0666 . . . . . . . [with means clamping the armour of the conductor (H02G 3/0675, H02G 3/0683 take precedence)]
3/0675 . . . . . . . [with bolts operating in a direction parallel to the conductors]
3/0683 . . . . . . . [with bolts operating in a direction transverse to the conductors]
3/0691 . . . . . . . [Fixing tubing to casing by auxiliary means co-operating with indentations of the tubing, e.g. with tubing-convolutions]
3/08 . . . . . . . . . . . . . Distribution boxes; Connection or junction boxes (cable terminations H02G 15/02)
3/081 . . . . . . . . . . . . . [Bases, casings or covers]
3/083 . . . . . . . . . . . . . [Inlets]
3/085 . . . . . . . . . . . . . [including knock-out or tear-out sections]
3/086 . . . . . . . . . . . . . [Assembled boxes]
3/088 . . . . . . . . . . . . . [Dustproof, splashproof, drip-proof, waterproof, or flameproof casings or inlets]
3/10 . . . . . . . . . . . . . for surface mounting on a wall
3/105 . . . . . . . . . . . . . [in association with a plinth, channel, raceway or similar]
3/12 . . . . . . . . . . . . . for flush mounting
3/121 . . . . . . . . . . . . . [in plain walls]
3/123 . . . . . . . . . . . . . [in thin walls]
3/125 . . . . . . . . . . . . . [with supporting bar extending between two separate studs of a wall frame]
3/126 . . . . . . . . . . . . . [with supporting means for mounting on a single wall stud]
3/128 . . . . . . . . . . . . . [in plinths, channels, raceways or similar]
3/14 . . . . . . . . . . . . . Fastening of cover or lid to box
3/16 . . . . . . . . . . . . . structurally associated with support for line-connecting terminals within the box (terminals H01R 9/00)
3/18 . . . . . . . . . . . . . providing line outlets
3/185 . . . . . . . . . . . . . [Floor outlets and access cups]
3/20 . . . . . . . . . . . . . Ceiling roses (or other lighting sets)
3/22 . . . . . . . . . . . . . Arrangements for leading cables or lines through walls, floors, or ceilings, e.g. into building (devices for use where pipes, cables or protective tubing pass through walls or partitions F16L 5/00; lead-in or lead-through insulators H01B 17/26; insulating tubes or sleeves H01B 17/58)
3/24 . . . . . . . . . . . . . [Installation of lines or cables on walls, ceilings or floors by means of insulators (insulators H01B 17/00)]
3/26 . . . . . . . . . . . . . [Installations of cables, lines, or separate protective tubing therefor directly on or in walls, ceilings, or floors (by means of insulators H02G 3/24; supports for pipes, cables or protective tubing F16L 3/00; hose-clips F16L 33/02)]
3/265 . . . . . . . . . . . . . [Installation, e.g. suspension, of conduit channels or other supports]
3/266 . . . . . . . . . . . . . [Mounting by adhesive material]
7/00 Overhead installations of electric lines or cables
(Installations of bus-bars H02G 5/00; trolley wires or contact lines for electric railways B60M; fastening conductors to insulators H01B 17/00, e.g. H01B 17/06, H01B 17/16, H01B 17/22; protection against abnormal electric conditions H01H; hook contacts for temporary connections to overhead lines H01R 11/14)

7/02 Devices for adjusting or maintaining mechanical tension, e.g. take-up device

7/04 Arrangements or devices for relieving mechanical tension

7/05 Suspension arrangements or devices for electric cables or lines

7/053 Suspension clamps and clips for electric overhead lines not suspended to a supporting wire

7/056 [Dead-end clamps]

7/06 Suspensions for lines or cables along a separate supporting wire, e.g. S-hook

7/08 Members clamped to the supporting wire or to the line or cable

7/10 Flexible members or lashings wrapped around both the supporting wire and the line or cable

7/12 Devices for maintaining distance between parallel conductors, e.g. spacer

7/125 [Damping spacers]

7/14 Arrangements or devices for damping mechanical oscillations of lines, e.g. for reducing production of sound (damping spacers H02G 7/125)

7/16 Devices for removing snow or ice from lines or cables (from insulators H01B 17/52)

7/18 Devices affording mechanical protection in the event of breakage of a line or cable, e.g. net for catching broken lines

7/20 Spatial arrangements or dispositions of lines or cables on poles, posts, or towers (construction of poles, posts or towers E04H 12/22)

7/205 Installation of electric cables, extending along a pole

7/22 Arrangements of earthing wires suspended between mastheads

9/00 Installations of electric cables or lines in or on the ground or water (cathodic protection C23F 13/02; detection of buried cables G01V)

9/02 laid directly in or on the ground, river-bed or seabottom; Coverings therefor, e.g. tile

9/025 Coverings therefor, e.g. tile

9/04 in surface ducts; Ducts or covers therefor

9/06 in underground tubes or conduits; Tubes or conduits therefor

9/065 Longitudinally split tubes or conduits therefor

9/08 in tunnels

9/10 in cable chambers, e.g. in manhole, in handhole (building aspects of cable chambers Section E; e.g. E04H 5/06)

9/12 supported on or from floats, e.g. in water (floating cables H01B 7/12)

11/00 Arrangements of electric cables or lines between relatively-movable parts (storing means for coiled material specially adapted for repeatedly paying-out and re-storing length of material for particular purposes B65H 75/34; current collectors H01R; winding-up telephone cord H04M 1/15)

11/003 [using gravity-loaded or spring-loaded loop]

11/006 [using extensible carrier for the cable, e.g. self-coiling spring (extensible conductors or cables H01B 7/06)]

11/02 using take-up reel or drum
13/00 Installations of lightning conductors; Fastening thereof to supporting structure (indicating, counting or recording lightning strokes G01; lightning arrestors H01C 7/12; H01C 8/04; H01G 9/18; H01T; earth plates, pins or other contacts H01R)

13/20 . (Active discharge triggering)
13/40 . (Connection to earth)
13/60 . (Detecting; Measuring; Sensing; Testing; Simulating)
13/80 . (Discharge by conduction or dissipation, e.g. rods, arresters, spark gaps)

15/00 Cable fittings
15/003 . (Filling materials, e.g. solid or fluid insulation)
15/007 . Devices for relieving mechanical stress
15/013 . Sealing means for cable inlets (inlets for cables filled with, or surrounded by, gas or oil H02G 15/32)
15/02 . Cable terminations (for gas- or oil-filled cables H02G 15/22)
15/025 . {for coaxial cables or hollow conductors (connections between HF conductors H01P 1/04; plug and socket connections per se H01R 24/38)}
15/04 . Cable-end sealings
15/043 . . . [with end caps, e.g. sleeve closed at one end]
15/046 . . . . . . [with bores or protruding portions allowing passage of cable conductors]
15/06 . Cable terminating boxes, frames, or other structures (terminal blocks H01R 9/00)
15/064 . . . with devices for relieving electrical stress
15/068 . . . . connected to the cable shield only
{H02G 15/22 takes precedence}
15/072 . . . . of the condenser type
15/076 . . . for multi-conductor cables
15/08 . Cable junctions (for gas- or oil-filled cables H02G 15/24; disconnectible junctions, electrical connections H01R)
15/085 . . {for coaxial cables or hollow conductors (plug and socket connections between HF conductors H01P 1/04; plug and socket connections per se H01R 24/38)}
15/10 . . protected by boxes, e.g. by distribution, connection or junction boxes (terminal blocks H01R 9/00 {; distribution boxes per se H02G 3/08})
15/103 . . . with devices for relieving electrical stress
15/105 . . . . connected to the cable shield only
{H02G 15/107 takes precedence}
15/1055 . . . . . . . [with cross-bonding of cable shields]
15/107 . . . . . of the condenser type
15/113 . . . Boxes split longitudinally in main cable direction
15/115 . . . Boxes split perpendicularly to main cable direction
15/117 . . . . for multiconductor cables
15/12 . . . . for incorporating transformers, loading coils or amplifiers
15/14 . . . . specially adapted for submarine cables
15/16 . . . . structurally associated with support for line-connecting terminals within the box
15/18 . . protected by sleeves, e.g. for communication cable (two-part covers H02G 15/10 {; preforms having internal stresses B29C 61/00})

2200/00 Indexing scheme relating to installation of electric cables or lines covered by H02G
2200/10 . . . Prevention of theft of valuable metals
2200/20 . . . Identification of installed cables
2200/30 . . . Tools for installing cables comprising a spirit level