

# CPC COOPERATIVE PATENT CLASSIFICATION

## H ELECTRICITY

(NOTE omitted)

## H02 GENERATION; CONVERSION OR DISTRIBUTION OF ELECTRIC POWER

## H02B BOARDS, SUBSTATIONS OR SWITCHING ARRANGEMENTS FOR THE SUPPLY OR DISTRIBUTION OF ELECTRIC POWER

### NOTE

This subclass covers boards, switchyards, switchgear or their installation, or the association of switching devices with each other or with other devices, e.g. transformers, fuses, meters or distribution boards; such associations constitute substations or distribution points.

### 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. }

### 1/00 Frameworks, boards, panels, desks, casings; Details of substations or switching arrangements

#### NOTE

In groups [H02B 1/01-H02B 1/56](#), the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

- 1/01 . Frameworks
- 1/011 . . {Open support bases}
- 1/012 . . {Details of mechanical connections}
- 1/013 . . {Profiles for cabinet frames}
- 1/014 . . {Corner connections for frameworks}
- 1/015 . Boards, panels, desks; Parts thereof or accessories therefor
- 2001/0155 . . {Removable shutters for non-used openings}
- 1/03 . . for energy meters
- 1/04 . . Mounting thereon of switches or of other devices in general, the switch or device having, or being without, casing
- 1/041 . . . {Mechanical coupling for side-by-side mounted apparatus}
- 1/042 . . . {Mounting on perforated supports by means of screws or locking members}
- 1/043 . . . . {the perforated support having openings distributed according to a pattern}
- 1/044 . . . Mounting through openings
- 1/048 . . . . Snap mounting
- 1/052 . . . Mounting on rails
- 1/0523 . . . . {locked into position by a sliding member}
- 1/0526 . . . . {locking or releasing devices actuated from the front face of the apparatus}
- 1/056 . . . Mounting on plugboards
- 1/0565 . . . . {by means of an adapter carrying one or more apparatuses (holders with sockets [H01R 33/00](#))}
- 1/06 . . having associated enclosures, e.g. for preventing access to live parts
- 1/063 . . . {with tamper resistant sealing device}

- 1/066 . . . {with hinged covers (covers for distribution boxes [H02G 3/14](#))}
- 1/14 . Shutters or guards for preventing access to contacts (shielding of isolating-contacts in withdrawable switchgear [H02B 11/24](#))
- 1/16 . Earthing arrangements (earthing arrangements for substations [H02B 5/01](#); earthing arrangements for switchgear [H02B 11/28](#), [H02B 13/075](#))
- 1/18 . Disposition or arrangement of fuses (for switchgear having a withdrawable carriage [H02B 11/26](#))
- 1/20 . Bus-bar or other wiring layouts, e.g. in cubicles, in switchyards (installations of bus-bars [H02G 5/00](#))
- 1/202 . . {Cable lay-outs}
- 1/205 . . {for connecting electrical apparatus mounted side by side on a rail}
- 1/207 . . {Cross-bar layouts}
- 1/21 . . Bus-bar arrangements for rack-mounted devices with withdrawable units
- 1/22 . . Layouts for duplicate bus-bar selection
- 1/24 . Circuit arrangements for boards or switchyards
- 1/26 . Casings; Parts thereof or accessories therefor

#### NOTE

In groups [H02B 1/26 - H02B 1/56](#), the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

- 1/28 . . dustproof, splashproof, drip-proof, waterproof or flameproof
- 1/30 . . Cabinet-type casings; Parts thereof or accessories therefor
- 1/301 . . . {mainly consisting of a frame onto which plates are mounted}
- 1/303 . . . {Bases or feet}
- 1/305 . . . {Cable entries}
- 1/306 . . . {Accessories, e.g. windows}
- 1/308 . . . {Mounting of cabinets together}
- 1/32 . . . Mounting of devices therein
- 1/34 . . . . Racks
- 1/36 . . . . . with withdrawable units

- 1/38 . . . Hinged covers or doors
- 1/40 . . Wall-mounted casings; Parts thereof or accessories therefor
- 1/42 . . . Mounting of devices therein
- 1/44 . . . Hinged covers or doors
- 1/46 . . Boxes; Parts thereof or accessories therefor
- 1/48 . . . Mounting of devices therein
- 1/50 . . Pedestal- or pad-mounted casings; Parts thereof or accessories therefor
- 1/505 . . . {retractable installations}
- 1/52 . . Mobile units, e.g. for work sites
- 1/54 . Anti-seismic devices or installations
- 1/56 . Cooling; Ventilation
- 1/565 . . {for cabinets}
- 3/00 Apparatus specially adapted for the manufacture, assembly, or maintenance of boards or switchgear**
- 5/00 Non-enclosed substations; Substations with enclosed and non-enclosed equipment**
  - 5/01 . Earthing arrangements, e.g. earthing rods
  - 5/02 . mounted on pole, e.g. pole transformer substation
  - 5/06 . gas-insulated
- 7/00 Enclosed substations, e.g. compact substations**
  - 7/01 . gas-insulated
  - 7/06 . Distribution substations, e.g. for urban network ([H02B 7/01 takes precedence](#))
  - 7/08 . . Underground substations
- 11/00 Switchgear having carriage withdrawable for isolation**
  - 11/02 . Details
  - 11/04 . . Isolating-contacts, e.g. mountings or shieldings
  - 11/06 . . Means for duplicate bus-bar selection
  - 11/08 . . Oil-tank lowering means associated with withdrawal mechanism
  - 11/10 . . Indicating electrical condition of gear; Arrangement of test sockets
  - 11/12 . with isolation by horizontal withdrawal
  - 11/127 . . Withdrawal mechanism
  - 11/133 . . . with interlock
  - 11/167 . . truck type ([H02B 11/127 takes precedence](#))
  - 11/173 . . drawer type ([H02B 11/127 takes precedence](#))
  - 11/18 . with isolation by vertical withdrawal
  - 11/20 . . having an enclosure
  - 11/22 . . . wherein front of enclosure moves with carriage upon horizontal withdrawal subsequent to isolation
  - 11/24 . Shutters or guards
  - 11/26 . Arrangements of fuses, resistors, voltage arresters or the like
  - 11/28 . Earthing arrangements
- 13/00 Arrangement of switchgear in which switches are enclosed in, or structurally associated with, a casing, e.g. cubicle ([switchgear having carriage withdrawable for isolation H02B 11/00](#))**
  - 13/005 . {Electrical connection between switchgear cells}
  - 13/01 . with resin casing
  - 13/02 . with metal casing
  - 13/025 . . Safety arrangements, e.g. in case of excessive pressure or fire due to electrical defect
  - 13/035 . . Gas-insulated switchgear
  - 13/0352 . . . {for three phase switchgear}
- 13/0354 . . . {comprising a vacuum switch ([H02B 13/0352 takes precedence](#))}
- 13/0356 . . . {Mounting of monitoring devices, e.g. current transformers}
- 13/0358 . . . {Connections to in or out conductors ([connectors in general H01R](#))}
- 13/045 . . . Details of casing, e.g. gas tightness
- 13/055 . . . Features relating to the gas
- 13/065 . . . Means for detecting or reacting to mechanical or electrical defects
- 13/0655 . . . . {through monitoring changes of gas properties}
- 13/075 . . . Earthing arrangements
- 13/08 . with stone, brick or concrete casing
- 15/00 Supervisory desks or panels for centralised control or display**
  - 15/02 . with mimic diagrams
  - 15/04 . . consisting of building blocks
- 99/00 Subject matter not provided for in other groups of this subclass**