

CPC COOPERATIVE PATENT CLASSIFICATION

B60M POWER SUPPLY LINES, AND DEVICES ALONG RAILS, FOR ELECTRICALLY-PROPELLED VEHICLES (control of points and safety arrangements along railway lines [B61L](#); construction of rails and points in general [E01B](#))

NOTE

This subclass deals with:

- overhead, overground or underground power supply lines; their crossings and points, erection and supervision;
- devices along rails and rail joints, for current conduction and for insulation;
- safety devices along the route against earth currents and inductive interference with nearby communication lines

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|-------------|--|----------------|---|
| 1/00 | Power supply lines for contact with collector on vehicle (collectors therefor B60L 5/00) | 1/36 | • Single contact pieces along the line for power supply |
| 1/02 | • Details | 3/00 | Feeding power to supply lines in contact with collector on vehicles; Arrangements for consuming regenerative power (controlling rail vehicles by varying voltage of power fed to vehicle B60L; power distribution in general H02J) |
| 1/04 | • . Mechanical protection of line; Protection against contact by living beings | 3/02 | • with means for maintaining voltage within a predetermined range (in general G05F) |
| 1/06 | • . Arrangements along the power lines for reducing interference in near-by communication lines (in general H04B 15/02) | 3/04 | • Arrangements for cutting in and out of individual track sections (by passage of the vehicle B60M 1/10) |
| 1/08 | • . Arrangements for energising and de-energising power line sections using mechanical actuation by the passing vehicle | 3/06 | • Arrangements for consuming regenerative power |
| 1/10 | • . Arrangements for energising and de-energising power line sections using magnetic actuation by the passing vehicle | 5/00 | Arrangements along running rails or at joints thereof for current conduction or insulation, e.g. safety devices for reducing earth currents (insulating rail joints E01B 11/54; conductive connections between rails in general H01R 3/00, H01R 4/00, H01R 4/70) |
| 1/103 | • . . {by vehicle-borne magnets} | 5/02 | • Means for reducing potential difference between rail and adjacent ground |
| 1/106 | • . . {by track-mounted magnets} | 7/00 | Power lines or rails specially adapted for electrically-propelled vehicles of special types, e.g. suspension tramway, ropeway, underground railway |
| 1/12 | • Trolley lines; Accessories therefor | 7/003 | • {for vehicles using stored power (e.g. charging stations)} |
| 1/13 | • . Trolley wires | 7/006 | • {for auto-scooters or the like, the power being supplied over a broad surface} |
| 1/135 | • . . {composite} | 2200/00 | Specific problems related to power supply lines not otherwise provided for |
| 1/14 | • . Crossings; Points | 2200/02 | • Prevention of theft of valuable metals |
| 1/16 | • . Suspension insulators (in general H01B) | | |
| 1/18 | • . Section insulators; Section switches | | |
| 1/20 | • . Arrangements for supporting or suspending trolley wires, e.g. from buildings | | |
| 1/22 | • . . Separate lines from which power lines are suspended, e.g. catenary lines, supporting-lines under tension | | |
| 1/225 | • . . Arrangements for fixing trolley wires to supporting-lines which are under tension | | |
| 1/23 | • . . Arrangements for suspending trolley wires from catenary line | | |
| 1/234 | • . . incorporating yielding means or damping means (supporting wires B60M 1/22) | | |
| 1/24 | • . . Clamps; Splicers; Anchor tips | | |
| 1/26 | • . Compensation means for variation in length | | |
| 1/28 | • . Manufacturing or repairing trolley lines (scaffold cars B60P ; B61D 15/00 ; platforms therefor B66F 11/04 ; manufacturing conductors in general H01B 13/00 ; overhead lines in general H02G 1/00) | | |
| 1/30 | • Power rails | | |
| 1/302 | • . {composite} | | |
| 1/305 | • . {Joints} | | |
| 1/307 | • . {Supports} | | |
| 1/32 | • . Crossings; Points (B60M 1/34 takes precedence) | | |
| 1/34 | • . in slotted conduits | | |
| 1/343 | • . . {Crossings; Points} | | |
| 1/346 | • . . {Joints} | | |