

**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

**B60M 1/00**

**Power supply lines for contact with collector on vehicle** ([collectors therefor B60L 5/00](#))

**B60M 1/02**

. Details

**B60M 1/04**

.. Mechanical protection of line; Protection against contact by living beings

**B60M 1/06**

.. Arrangements along the power lines for reducing interference in near-by communication lines ([in general H04B 15/02](#))

**B60M 1/08**

.. Arrangements for energising and de-energising power line sections using mechanical actuation by the passing vehicle

**B60M 1/10**

.. Arrangements for energising and de-energising power line sections using magnetic actuation by the passing vehicle

**B60M 1/103**

... {by vehicle-borne magnets}

**B60M 1/106**

... {by track-mounted magnets}

**B60M 1/12**

. Trolley lines; Accessories therefor

**B60M 1/13**

.. Trolley wires

**B60M 1/135**

... {composite}

**B60M 1/14**

.. Crossings; Points

**B60M 1/16**

.. Suspension insulators ([in general H01B](#))

**B60M 1/18**

.. Section insulators; Section switches

**B60M 1/20**

.. Arrangements for supporting or suspending trolley wires, e.g. from buildings

**B60M 1/22**

... Separate lines from which power lines are suspended, e.g. catenary lines, supporting-lines under tension

**B60M 1/225**

... Arrangements for fixing trolley wires to supporting-lines which are under tension

**B60M 1/23**

... Arrangements for suspending trolley wires from catenary line

**B60M 1/234**

... incorporating yielding means or damping means ([supporting wires B60M 1/22](#))

**B60M 1/24**

... Clamps; Splicers; Anchor tips

**B60M 1/26**

.. Compensation means for variation in length

- B60M 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](#))
- B60M 1/30 . Power rails
- B60M 1/302 . . {composite}
- B60M 1/305 . . {Joints}
- B60M 1/307 . . {Supports}
- B60M 1/32 . . Crossings; Points ([B60M 1/34](#) takes precedence)
- B60M 1/34 . . in slotted conduits
- B60M 1/343 . . . {Crossings; Points}
- B60M 1/346 . . . {Joints}
- B60M 1/36 . Single contact pieces along the line for power supply
- B60M 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](#))
- B60M 3/02 . with means for maintaining voltage within a predetermined range (in general [G05F](#))
- B60M 3/04 . Arrangements for cutting in and out of individual track sections (by passage of the vehicle [B60M 1/10](#))
- B60M 3/06 . Arrangements for consuming regenerative power
- B60M 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](#))
- B60M 5/02 . Means for reducing potential difference between rail and adjacent ground
- B60M 7/00** **Power lines or rails specially adapted for electrically-propelled vehicles of special types, e.g. suspension tramway, ropeway, underground railway**
- B60M 7/003 . {for vehicles using stored power (e.g. charging stations)}
- B60M 7/006 . {for auto-scooters or the like, the power being supplied over a broad surface}
- B60M 2200/00** **Specific problems related to power supply lines not otherwise provided for**
- B60M 2200/02 . Prevention of theft of valuable metals