

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

Guidance heading:**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 }

- Guidance heading:**

- B60M 2200/00** **Specific problems related to power supply lines not otherwise provided for**

- B60M 2200/02 . Prevention of theft of valuable metals