

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