

**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