

**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