

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### TRANSPORTING

#### B60 VEHICLES IN GENERAL

(NOTE omitted)

#### 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

##### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

<b>1/00</b>	<b>Power supply lines for contact with collector on vehicle (collectors therefor <a href="#">B60L 5/00</a>)</b>	<b>1/28</b>	• . Manufacturing or repairing trolley lines ( <a href="#">scaffold cars B60P</a> ; <a href="#">B61D 15/00</a> ; platforms therefor <a href="#">B66F 11/04</a> ; manufacturing conductors in general <a href="#">H01B 13/00</a> ; overhead lines in general <a href="#">H02G 1/00</a> )
1/02	• Details	<b>1/30</b>	• Power rails
1/04	• . Mechanical protection of line; Protection against contact by living beings	<b>1/302</b>	• . {composite}
1/06	• . Arrangements along the power lines for reducing interference in nearby communication lines (in general <a href="#">H04B 15/02</a> )	<b>1/305</b>	• . {Joints}
1/08	• . Arrangements for energising and de-energising power line sections using mechanical actuation by the passing vehicle	<b>1/307</b>	• . {Supports}
1/10	• . Arrangements for energising and de-energising power line sections using magnetic actuation by the passing vehicle	<b>1/32</b>	• . Crossings; Points ( <a href="#">B60M 1/34</a> takes precedence)
1/103	• . . {by vehicle-borne magnets}	<b>1/34</b>	• . in slotted conduits
1/106	• . . {by track-mounted magnets}	<b>1/343</b>	• . . {Crossings; Points}
1/12	• Trolley lines; Accessories therefor	<b>1/346</b>	• . . {Joints}
1/13	• . Trolley wires	<b>1/36</b>	• Single contact pieces along the line for power supply
1/135	• . . {composite}	<b>3/00</b>	<b>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 <a href="#">B60L</a>; power distribution in general <a href="#">H02J</a>)</b>
1/14	• . Crossings; Points	<b>3/02</b>	• with means for maintaining voltage within a predetermined range (in general <a href="#">G05F</a> )
1/16	• . Suspension insulators (in general <a href="#">H01B</a> )	<b>3/04</b>	• Arrangements for cutting in and out of individual track sections (by passage of the vehicle <a href="#">B60M 1/10</a> )
1/18	• . Section insulators; Section switches	<b>3/06</b>	• Arrangements for consuming regenerative power
1/20	• . Arrangements for supporting or suspending trolley wires, e.g. from buildings	<b>5/00</b>	<b>Arrangements along running rails or at joints thereof for current conduction or insulation, e.g. safety devices for reducing earth currents (insulating rail joints <a href="#">E01B 11/54</a>; conductive connections between rails in general <a href="#">H01R 3/00</a>, <a href="#">H01R 4/00</a>, <a href="#">H01R 4/70</a>)</b>
1/22	• . . Separate lines from which power lines are suspended, e.g. catenary lines, supporting-lines under tension	<b>5/02</b>	• Means for reducing potential difference between rail and adjacent ground
1/225	• . . Arrangements for fixing trolley wires to supporting-lines which are under tension		
1/23	• . . Arrangements for suspending trolley wires from catenary line		
1/234	• . . incorporating yielding means or damping means ( <a href="#">supporting wires B60M 1/22</a> )		
1/24	• . . Clamps; Splicers; Anchor tips		
1/26	• . Compensation means for variation in length		

## B60M

**7/00** Power lines or rails specially adapted for electrically-propelled vehicles of special types, e.g. suspension tramway, ropeway, underground railway

7/003 . {for vehicles using stored power (e.g. charging stations)}

7/006 . {for auto-scooters or the like, the power being supplied over a broad surface}

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

2200/02 . Prevention of theft of valuable metals