

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### TRANSPORTING

#### B61 RAILWAYS

(NOTE omitted)

#### B61H BRAKES OR OTHER RETARDING DEVICES SPECIALLY ADAPTED FOR RAIL VEHICLES; ARRANGEMENT OR DISPOSITION THEREOF IN RAIL VEHICLES

(arrangements in rail vehicles for adjusting wheel-braking force to meet varying vehicular or permanent-way conditions [B60T 8/00](#); transmitting braking action from initiating means to ultimate brake actuator with power assistance or drive, brake systems incorporating such transmitting means, e.g. air-pressure brake systems, [B60T 13/00](#); construction, arrangement or operation of valves incorporated in power brake systems [B60T 15/00](#); component parts, details or accessories of brake systems [B60T 17/00](#))

<b>1/00</b>	<b>Applications or arrangements of brakes with a braking member or members co-operating with the periphery of the wheel rim, a drum or the like</b>	<b>11/005</b>	<b>. {in combination with rail sanding, door opening or the like}</b>
<b>1/003</b>	<b>. {with an actuator directly acting on a brake head}</b>	<b>11/02</b>	<b>. of self-applying brakes</b>
<b>1/006</b>	<b>. {Band brakes}</b>	<b>11/04</b>	<b>. . with brake-applying force derived from rotation of axle</b>
<b>3/00</b>	<b>Applications or arrangements of brakes with an outwardly-movable braking member or members co-operating with the inner surface of a drum or the like</b>	<b>11/06</b>	<b>. of hydrostatic, hydrodynamic, or aerodynamic brakes</b>
<b>5/00</b>	<b>Applications or arrangements of brakes with substantially radial braking surfaces pressed together in axial direction, e.g. disc brakes</b>	<b>11/08</b>	<b>. . comprising a pump or the like circulating fluid, braking being effected by throttling of the circulation</b>
<b>7/00</b>	<b>Brakes with braking members co-operating with the track (positive railway stops or track brakes secured to permanent way <a href="#">B61K 7/00</a>)</b>	<b>11/10</b>	<b>. . Aerodynamic brakes with control flaps, e.g. spoilers, attached to the vehicles</b>
<b>7/02</b>	<b>. Scotch-blocks, skids, or like track-engaging shoes</b>	<b>11/14</b>	<b>. Combinations of different types of brakes, e.g. brake blocks acting on wheel-rim combined with disc brakes</b>
<b>7/04</b>	<b>. . attached to railway vehicles</b>	<b>11/16</b>	<b>. Removable self-contained brake units</b>
<b>7/06</b>	<b>. . . Skids</b>	<b>13/00</b>	<b>Actuating rail-vehicle brakes</b>
<b>7/08</b>	<b>. . . . electromagnetically operated</b>	<b>13/005</b>	<b>. {Spring actuation}</b>
<b>7/083</b>	<b>. . . . . {working with eddy currents}</b>	<b>13/02</b>	<b>. Hand or other personal actuation</b>
<b>7/086</b>	<b>. . . . . {Suspensions therefor}</b>	<b>13/04</b>	<b>. . by mechanisms incorporating toothed gearing</b>
<b>7/10</b>	<b>. . unattached</b>	<b>13/06</b>	<b>. Actuating or influencing the brakes by backward pressure of buffers or coupling gear, e.g. buffer brakes</b>
<b>7/12</b>	<b>. Grippers co-operating frictionally with tracks</b>	<b>13/20</b>	<b>. Transmitting mechanisms</b>
<b>9/00</b>	<b>Brakes characterised by, or modified for, their application to special railway systems or purposes</b>	<b>13/22</b>	<b>. . for braking a single wheel or wheels at one side only, e.g. for locomotives or motor railcars</b>
<b>9/003</b>	<b>. {for shunting operation or for narrow gauge trains}</b>	<b>13/24</b>	<b>. . for cars with two axles or bogies with two axles and braking cylinder(s) for each bogie, the mechanisms at each side being interconnected</b>
<b>9/006</b>	<b>. {Brakes for locomotives}</b>	<b>13/26</b>	<b>. . for cars or bogies with more than two axles or bogies, the mechanisms at each side being interconnected</b>
<b>9/02</b>	<b>. for aerial, e.g. rope, railways</b>	<b>13/28</b>	<b>. . with variable leverage or mechanical advantage to obtain quick take-up</b>
<b>9/04</b>	<b>. for preventing or controlling movement in one direction or, selectively, in either direction</b>	<b>13/30</b>	<b>. . adjustable to take account of variation of vehicle weight (arrangements for adjusting wheel-braking force in response to vehicle weight or load <a href="#">B60T 8/18</a>)</b>
<b>9/06</b>	<b>. for storing energy during braking action</b>	<b>13/32</b>	<b>. . . by varying brake lever leverage</b>
<b>11/00</b>	<b>Applications or arrangements of braking or retarding apparatus not otherwise provided for; Combinations of apparatus of different kinds or types</b>		

## B61H

- 13/34 . Details
- 13/36 . . Beams; Suspension thereof
- 13/38 . . Suspension of transmitting mechanisms
- 15/00 Wear-compensating mechanisms, e.g. slack adjusters**
  - 15/0007 . {mechanical and self-acting in one direction}
  - 15/0014 . . {by means of linear adjustment}
  - 15/0021 . . . {with cams, by friction or clamping}
  - 15/0028 . . . {with screw-thread and nut}
  - 15/0035 . {mechanical and self-acting in both directions}
  - 15/0042 . . {by means of linear adjustment}
  - 15/005 . . . {with cams, by friction or clamping}
  - 15/0057 . . . {with screw-thread and nut}
  - 15/0064 . {mechanical and non-automatic}
  - 15/0071 . . {by means of linear adjustment}
  - 15/0078 . . . {with cams, by friction or clamping}
  - 15/0085 . . . {with screw-thread and nut}
  - 15/0092 . {hydraulic}