

## SECTION B — PERFORMING OPERATIONS; TRANSPORTING

### B61 RAILWAYS

**B61H BRAKES OR OTHER RETARDING APPARATUS PECULIAR TO RAIL VEHICLES; ARRANGEMENTS OR DISPOSITIONS OF BRAKES OR OTHER RETARDING APPARATUS IN RAIL VEHICLES** (electrodynamic braking of vehicles B60L, in general H02K; 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; brakes in general F16D)

#### Subclass index

BRAKES ACTING ON TRACK; BRAKES FOR SPECIAL PURPOSES.....7/00, 9/00  
 ARRANGEMENTS OF BRAKES  
   Acting on wheels.....1/00, 3/00, 5/00  
   Other arrangements, combinations.....11/00  
 ACTUATION.....13/00  
 COMPENSATING FOR WEAR.....15/00

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| <p><b>1/00 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> (self-applying brakes B61H 11/02; combinations of different types of brakes B61H 11/14; wheels B60B)</p>   | <p>11/02 • of self-applying brakes<br/>         11/04 • • with brake-applying force derived from rotation of axle<br/>         11/06 • of hydrostatic, hydrodynamic, or aerodynamic brakes<br/>         11/08 • • comprising a pump or the like circulating fluid, braking being effected by throttling of the circulation<br/>         11/10 • • Aerodynamic brakes with control flaps, e.g. spoilers, attached to the vehicles<br/>         11/14 • Combinations of different types of brakes, e.g. brake blocks acting on wheel-rim combined with disc brakes<br/>         11/16 • Removable self-contained brake units</p>  |
| <p><b>3/00 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> (self-applying brakes B61H 11/02; combinations of different types of brakes B61H 11/14)</p>   | <p>13/00 <b>Actuating rail-vehicle brakes</b> (self-applying brakes B61H 11/02; wear-compensating mechanisms B61H 15/00)<br/>         13/02 • Hand or other personal actuation<br/>         13/04 • • by mechanisms incorporating toothed gearing<br/>         13/06 • Actuating or influencing the brakes by backward-pressure of buffers or coupling gear, e.g. buffer brakes<br/>         13/20 • Transmitting mechanisms (wear-compensating mechanisms B61H 15/00)<br/>         13/22 • • for braking a single wheel or wheels at one side only, e.g. for locomotives or motor railcars<br/>         13/24 • • for cars with two axles or bogies with two axles and braking cylinder(s) for each bogie, the mechanisms at each side being interconnected<br/>         13/26 • • for cars or bogies with more than two axles or bogies, the mechanisms at each side being interconnected<br/>         13/28 • • with variable leverage or mechanical advantage to obtain quick take-up</p> |
| <p><b>5/00 Applications or arrangements of brakes with substantially-radial braking surfaces pressed together in axial direction, e.g. disc brakes</b> (self-applying brakes B61H 11/02; combinations of different types of brakes B61H 11/14)</p>  |   |
| <p><b>7/00 Brakes with braking members co-operating with the track</b> (positive railway stops or track brakes secured to permanent way B61K 7/00)<br/>         7/02 • Scotch-blocks, skids, or like track-engaging shoes<br/>         7/04 • • attached to railway vehicles<br/>         7/06 • • • Skids<br/>         7/08 • • • • electromagnetically operated<br/>         7/10 • • unattached<br/>         7/12 • Grippers co-operating frictionally with tracks</p> |   |
| <p><b>9/00 Brakes characterised by, or modified for, their application to special railway systems or purposes</b><br/>         9/02 • for aerial, e.g. rope, railways<br/>         9/04 • for preventing or controlling movement in one direction or, selectively, in either direction<br/>         9/06 • for storing energy during braking action</p>   |   |
| <p><b>11/00 Applications or arrangements of braking or retarding apparatus not otherwise provided for; Combinations of apparatus of different kinds or types</b></p>  |   |

**B61H**

- 13/30

- • adjustable to take account of variation of vehicle weight (arrangements for adjusting wheel-braking force in response to vehicle weight or load B60T 8/18)
- 13/32

- • • by varying brake lever leverage
- 13/34

- Details
- 13/36

- • Beams; Suspension thereof
- 13/38

- • Suspension of transmitting mechanisms (B61H 13/36 takes precedence)
- 15/00

**Wear-compensating mechanisms, e.g. slack adjusters**