

## 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

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

## **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**