

**CPC****COOPERATIVE PATENT CLASSIFICATION****B60D****VEHICLE CONNECTIONS** (components of brake systems [B60T 17/04](#))**NOTE**

Attention is drawn to the note following the class [B60](#)

**Guidance heading:****B60D 1/00**

**Traction couplings; Hitches; Draw-gear; Towing devices** (devices specially adapted for connection between tractors and agricultural machines or implements [A01B 59/00](#); fifth-wheel couplings [B62D](#) )

- B60D 1/01 . Traction couplings or hitches characterised by their type
- B60D 1/015 .. { Fifth wheel couplings }
- B60D 1/02 .. Bolt or shackle-type couplings
- B60D 1/025 ... { comprising release or locking lever pins }
- B60D 1/04 .. Hook or hook-and-hasps couplings
- B60D 1/06 .. Ball-and-socket hitches {e.g. constructional details, auxiliary devices, their arrangement on the vehicle }
- B60D 1/065 ... {characterised by the hitch mechanism }
- B60D 1/07 .. Multi-hitch devices, i.e. comprising several hitches of the same or of a different type; Hitch-adaptors, i.e. for converting hitches from one type to another
- B60D 1/075 ... { Hitch-adaptors }
- B60D 1/14 . Draw-gear or towing devices characterised by their type
- B60D 1/141 .. {Arrangements or frames adapted to allow the connection of trailers to tractor three point hitches (coupling of multipurpose tractors with equipment [B62D 49/065](#)) }
- B60D 1/143 .. { characterised by the mounting of the draw-gear on the towed vehicle ([B60D 1/187](#) takes precedence) }
- B60D 1/145 .. consisting of an elongated single bar or tube
- B60D 1/155 ... comprising telescopic or foldable parts
- B60D 1/167 .. consisting of articulated or rigidly assembled bars or tubes forming a V-, Y-, or U-shaped draw gear ([B60D 1/173](#) takes precedence)
- B60D 1/1675 ... { comprising extendable, retractable or foldable members }
- B60D 1/173 .. consisting of at least two bars which are not connected or articulated to each other
- B60D 1/18 .. Tow ropes, chains or the like
- B60D 1/182 ... {comprising resilient members }
- B60D 1/185 ... {comprising a cable or chain winding device ([B60D 1/38](#) takes precedence) }
- B60D 1/187 ... {characterised by the connection to the towing vehicle or to the trailer }
- B60D 1/24 . characterised by arrangements for particular functions
- B60D 1/241 .. { for suppressing noise generation }

- B60D 1/242 .. { for supporting braking actions, e.g. braking means integrated with hitches; Braking sensors }
- B60D 1/243 .. { for protection in case of crash, collision, impact, or the like }
- B60D 1/244 ... { involving weakened zones in the hitches }
- B60D 1/245 .. { for facilitating push back or parking of trailers }
- B60D 1/246 .. { for actuating the hitch by powered means }
- B60D 1/247 .. { for improving weight distribution }
- B60D 1/248 .. { for measuring, indicating or displaying the weight }
- B60D 1/249 .. { for damping in the pulling direction and being integrated with the hitch, e.g. resilient dampers integrated with the hitch }
- B60D 1/26 .. for remote control, e.g. for releasing
- B60D 1/28 .. for preventing unwanted disengagement, e.g. safety appliances
- B60D 1/30 .. for sway control, { e.g. stabilising or anti-fishtail devices; Sway alarm means }
- B60D 1/305 ... { Sway alarm means }
- B60D 1/32 ... involving damping devices
- B60D 1/322 .... {using fluid dampers (fluid dampers per se [F16F 9/00](#)) }
- B60D 1/325 .... {using friction dampers (friction dampers per se [F16F 7/02](#) to [F16F 7/08](#)) }
- B60D 1/327 .... {using cables }
- B60D 1/34 ... involving springs
- B60D 1/345 .... {the springs being of the bar or leaf type (torsion bars per se [F16F 1/14](#), leaf springs per se [F16F 1/18](#)) }
- B60D 1/36 .. for facilitating connection, e.g. hitch catchers {, visual guide means, signalling aids ([B60D 1/465](#) takes precedence; vehicle signalling in general [B60Q](#) ; optical arrangements specially adapted for viewing trailer-hitches [B60R 1/003](#)) }
- B60D 1/363 ... {Hitch guiding or catching elements, e.g. V-shaped plates partially surrounding a coupling member for guiding the other coupling member }
- B60D 1/366 .... { comprising braking means }
- B60D 1/38 ... involving auxiliary cables for drawing the trailer to the tractor before coupling
- B60D 1/40 ... involving a temporarily extensible or alignable member ([B60D 1/38](#) takes precedence)
- B60D 1/42 .. for being adjustable
- B60D 1/44 ... horizontally
- B60D 1/46 ... vertically
- B60D 1/465 .... {comprising a lifting mechanism, e.g. for coupling while lifting }
- B60D 1/48 . characterised by the mounting
- B60D 1/481 .. { adapted for being mounted to the front and back of trailers, carts, trolleys, or the like to form a train }
- B60D 1/483 .. { adapted for being mounted to the side of a vehicle }
- B60D 1/485 .. { mounted by means of transversal members attached to the frame of a vehicle }
- B60D 1/486 .. { adapted for being mounted to the wheel axle of the vehicle }
- B60D 1/488 .. { mounted directly to the chassis of the towing vehicle }
- B60D 1/50 .. resiliently mounted ([B60D 1/30](#) takes precedence) { ([B60D 1/182](#) takes precedence; springs or dampers per se [F16F](#) ) }
- B60D 1/52 .. removably mounted ([B60D 1/56](#) takes precedence)

- B60D 1/54 . . collapsible or retractable when not in use, e.g. hide-away hitches ([B60D 1/52](#) takes precedence)
- B60D 1/56 . . securing to the vehicle bumper
- B60D 1/565 . . . { having an eyelet }
- B60D 1/58 . Auxiliary devices
- B60D 1/583 . . { Holding down means, e.g. holding down retainers }
- B60D 1/586 . . { Lubrication means }
- B60D 1/60 . . Covers, caps or guards {e.g. comprising anti-theft devices }
- B60D 1/605 . . . { Protection caps }
- B60D 1/62 . . involving supply lines, electric circuits, or the like
- B60D 1/64 . . . Couplings or joints therefor
- B60D 1/66 . . Props
- B60D 1/665 . . . { comprising supporting wheels, e.g. dollies }

**B60D 3/00** **Fittings to facilitate pushing** ([B60D 1/00](#) takes precedence; vehicle bumpers [B60R 19/02](#); steering arrangements for backing a normally-drawn trailer [B62D 13/06](#))

**B60D 5/00** **Gangways for coupled vehicles, e.g. of concertina type**

- B60D 5/003 . { Bellows for interconnecting vehicle parts }
- B60D 5/006 . {Passages between articulated vehicles, e.g. bridges or rotating plates }

**B60D 7/00** **Other connections**

### Guidance heading:

**B60D 2001/00** **Traction couplings; Hitches; Draw-gear; Towing devices** (devices specially adapted for connection between tractors and agricultural machines or implements [A01B 59/00](#); fifth-wheel couplings [B62D](#) )

- B60D 2001/001 . specially adapted for use on vehicles other than cars
- B60D 2001/003 . . for bicycles or motorbikes
- B60D 2001/005 . . for carts, scooters, or the like
- B60D 2001/006 . . . comprising a handle
- B60D 2001/008 . . specially adapted for implements, e.g. towed tools
- B60D 2001/48 . characterised by the mounting
- B60D 2001/54 . . collapsible or retractable when not in use, e.g. hide-away hitches ([B60D 1/52](#) takes precedence)
- B60D 2001/542 . . . characterised by the number of pivot axis
- B60D 2001/544 . . . . one pivot axis
- B60D 2001/546 . . . . two pivot axes

B60D 2001/548 . . . . three pivot axes