

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 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 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 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
- 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**