

B60D

VEHICLE CONNECTIONS

Definition statement

This place covers:

Types of hitches or devices which are not covered by this subclass include:

- Carriers for bikes or other loads which are connected to hitches.
- Hitches used not between vehicles, e.g. between bikes.
- No 5th-wheel couplings.
- Electrical, hydraulic or pneumatic connections as long as the hitch or part of the hitch is concerned, e.g. fixation to the hitch or sensor on the hitch.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Parts, details or accessories of agricultural machines or implements, in general	A01B
Arrangement of signalling or lighting devices for vehicles in general	B60Q
Vehicles, vehicle fittings or vehicle parts not otherwise provided for	B60R
Servicing, cleaning, repairing, supporting, lifting or manoeuvring of vehicles, not otherwise provided for	B60S
Brake control systems or parts thereof; Arrangement of braking elements on vehicles in general	B60T
Auxiliary devices or accessories specially adapted to cycles and not otherwise provided for	B62J
Testing of vehicles	G01M 17/00

B60D 1/00

Traction couplings; Hitches; Draw-gear; Towing devices (fifth-wheel traction couplings [B62D 53/08](#))

Definition statement

This place covers:

All kinds of couplings between vehicles, but not between bikes or motorbikes. If a connection is solely claimed for connecting multiple bikes or motorbikes or connecting trailers solely to bikes or motorbikes, then the connection should indeed not be classified in [B60D](#) but in the respective classes for bikes or motorbikes, e.g. [B62K 27/00](#). For classifying such a document, it should then be referred to that field only.

However, in practice most of the connections are NOT explicitly claimed for bikes or motorbikes, which then makes the documents relevant to be classified in [B60D](#).

References

Limiting references

This place does not cover:

Fifth-wheel traction couplings	B62D 53/08
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Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Devices specially adapted for connection between animals or tractors and agricultural machines or implements	A01B 59/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Supplementary fittings on vehicle exterior for carrying cycles	B60R 9/10
Hand-propelled vehicles, e.g. hand carts	B62B
Cycles	B62K
Sidecars; Forecars; Trailers or the like specially adapted to be attached to cycles	B62K 27/00

B60D 1/01

Traction couplings or hitches characterised by their type

Definition statement

This place covers:

Traction couplings or hitches according to their type, e.g. ball-and-socket hitches or bolt-type couplings.

B60D 1/06

Ball-and-socket hitches

Definition statement

This place covers:

Ball-and-socket hitches, e.g. constructional details, auxiliary devices or their arrangement on the vehicle.

B60D 1/14

Draw-gear or towing devices characterised by their type

Definition statement

This place covers:

Gears according to their type, e.g. V-shaped draw gears or draw gears which consist of a single longitudinal bar.

B60D 1/141

{Arrangements or frames adapted to allow the connection of trailers to tractor three-point hitches}

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Coupling of multi-purpose tractors with equipment	B62D 49/065
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B60D 1/167

consisting of articulated or rigidly assembled bars or tubes forming a V-, Y- or U-shaped draw gear

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Draw-gear or towing devices characterised by their type, consisting of at least two bars which are not connected or articulated to each other	B60D 1/173
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B60D 1/24

characterised by arrangements for particular functions

Definition statement

This place covers:

Rather than for the features of the devices they are classified according to their function into the main or different sub-groups like remote control of release function, preventing unwanted disengagements etc.

B60D 1/30

for sway control {; Sway alarm means}

Definition statement

This place covers:

- Arrangements for sway control, e.g. stabilising or anti-fishtail devices.
- Sway alarm means.

B60D 1/322**{using fluid dampers}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Springs, vibration-dampers, shock-absorbers or similarly-constructed movement-dampers using a fluid or the equivalent as damping medium	F16F 9/00
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B60D 1/325**{using friction dampers}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Vibration-dampers or shock-absorbers with relatively-rotatable friction surfaces that are pressed together	F16F 7/02
Vibration-dampers or shock-absorbers with friction surfaces rectilinearly movable along each other	F16F 7/08

B60D 1/345**{the springs being of the bar or leaf type}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Torsion springs consisting of bars or tubes	F16F 1/14
Leaf springs	F16F 1/18

B60D 1/36**for facilitating connection, e.g. hitch catchers****Definition statement***This place covers:*

Arrangements for facilitating connection, e.g. hitch catchers, visual guide means or signalling aids.

References**Informative references***Attention is drawn to the following places, which may be of interest for search:*

Traction couplings, hitches, draw-gear or towing devices comprising a lifting mechanism, e.g. for coupling while lifting	B60D 1/465
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Arrangement of signalling devices, the mounting or supporting thereof or circuits therefor, for vehicle in general	B60Q
Optical arrangements specially adapted for viewing trailer hitches	B60R 1/003

B60D 1/48

characterised by the mounting

Definition statement

This place covers:

Mountings or supports for hitches on the towing vehicle body. Opposite to this, class [B60D 1/143](#) concerns also features related to mounting but specifically only draw gears fixed to the towed vehicle. [B60D 1/48](#) is intended to further specify the kind of fixation of the vehicle hitch/draw gear to the towing vehicle body.

B60D 1/50

resiliently mounted ([B60D 1/30](#) takes precedence)

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Tow ropes, chains or the like comprising resilient members	B60D 1/182
Springs; Shock-absorbers; Means for damping vibration	F16F

B60D 1/52

removably mounted

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Traction couplings, hitches, draw-gear or towing devices securing to the vehicle bumper	B60D 1/56
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B60D 1/54

collapsible or retractable when not in use, e.g. hide-away hitches

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Removably mounted traction couplings, hitches, draw-gear or towing devices	B60D 1/52
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B60D 1/58

Auxiliary devices

Definition statement

This place covers:

- Load, weight, angle, force, torque measuring or sensing devices.
- Length of drawbar or position measuring devices.
- Coupling monitoring systems such as alarm systems (theft prevention).
- Brake system for hitches.
- Safety devices.
- Auxiliary accessories on hitches (such as steps).

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electric or fluid circuits specially adapted for vehicles and not otherwise provided for	B60R 16/00
Ground-engaging vehicle fittings for supporting, lifting or manoeuvring the vehicle, wholly or in part, e.g. built-in jacks	B60S 9/00
Arrangements for measuring electric power or power factor	G01R 21/00
Radio direction-finding; Radio navigation; Determining distance or velocity by use of radio waves; Locating or presence-detecting by use of the reflection or reradiation of radio waves; Analogous arrangements using other waves	G01S
Line connectors; Current collectors	H01R

B60D 1/60

Covers, caps or guards {, e.g. comprising anti-theft devices}

Definition statement

This place covers:

Covers, caps or guards, e.g. comprising anti-theft devices.

B60D 3/00

Fittings to facilitate pushing

Definition statement

This place covers:

Couplings for facilitating pushing.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Traction couplings; Hitches; Draw-gear; Towing devices	B60D 1/00
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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

Definition statement

This place covers:

Bellow or concertina-type gangway between coupled vehicles, such as between two wagons, e.g. rotatable platforms.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Communication passages between coaches; Adaptation of coach ends therefor	B61D 17/20
Flexible communication passages between coaches, e.g. bellows; Adaptation of coach ends therefor	B61D 17/22
Articulated buses with interconnecting passageway, e.g. bellows	B62D 47/025

B60D 99/00

Subject matter not provided for in other groups of this subclass

Definition statement

This place covers:

Connections not otherwise provided for like temporary vehicle connections which can be connected or unconnected while driving.