B60J

WINDOWS, WINDSCREENS, NON-FIXED ROOFS, DOORS, OR SIMILAR DEVICES FOR VEHICLES; REMOVABLE EXTERNAL PROTECTIVE COVERINGS SPECIALLY ADAPTED FOR VEHICLES (fastening, suspending, closing, or opening of such devices E05)

Definition statement

This place covers:

- Vehicle glazing (B60J 1/00)
- Sun visors (B60J 3/00)
- Doors (B60J 5/00)
- Openable roofs (B60J 7/00),
- Sealings for glazing (including sun roofs)
- Doors and roofs (B60J 10/00)
- External protective coverings (B60J 11/00)
- Residual subject matter not covered by the main groups (B60J 9/00).

Relationships with other classification places

Windows, windscreens, non-fixed roofs, doors, or similar devices which are of general applicability, irrespective of whether described or claimed only for vehicles, are also classified in subclass E06B.

References

Limiting references

This place does not cover:

Devices for vehicles of the type: rail vehicles, waterborne vessels, aircrafts, space vehicles, hand carts, cycles, animal-drawn vehicles, or sledges	B61- B64

Informative references

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

Locks; accessories therefor; handcuffs	E05B
Devices for moving wings into open or closed position; checks for wings; wing fittings not otherwise provided for, concerned with the functioning of the wing.	E05F
Fixed or movable closures for openings in buildings, vehicles, fences, or like enclosures, in general, e.g. doors windows, blinds, gates.	E06B

B60J 1/00

Windows; Windscreens; Accessories therefor (B60J 10/00 takes precedence; air curtains instead of windows B60J 9/04 {; sealing strips for windshields B60J 10/70; sealing sash guides for sliding window panes B60J 10/74; glass partitions inside vehicles to protect occupants against personal attack B60R 21/12})

Definition statement

This place covers:

Front, rear or side windows of a vehicle.

References

Limiting references

This place does not cover:

Openable roof windows, e.g. sun roofs	B60J 7/00
Fixed roof windows	B62D 25/06

Informative references

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

by cutting seal with laser	B23K 26/402
Releasing window panes- by cutting seal for window removal with a wire	B26B 27/00
-severing seal other than cutting	B26F 3/00
seals bonded or moulded to glass	B29C 33/0044
compression moulding of seals onto window	B29C 43/00
injection moulding of seals onto window	B29C 45/14434
Manufacturing window panes:- joining of preformed parts (e.g. window and seal)	B29C 65/00
-using liquid or paste-like material for repairing articles made from plastic	B29C 73/025
laminated glazing	B32B 17/00, B32B 17/06, B32B 17/10
Repairing windshields- using resin for repairing layered glass sheet-	B32B 17/10963
for covering luggage space	B60R 5/047
Partitioning windows in interior of vehicle - for acoustic insulation	B60R 13/0823
as safety guard between passenger and load compartment	B60R 21/026
to protect passenger against attack	B60R 21/12
-surface treatment by coating	C03B 17/00
reforming shaped glass (bending)	C03B 23/00
cutting glass	C03B 33/00
Obstruction detection for windows	E05F 15/40, E05Y 2900/50
production of double windows for vehicles	E06B 2003/67395
Roller blinds - in buildings	E06B 9/40

Bullet proof windows	F41H 5/00, F41H 7/00

B60J 1/2011

{Blinds; curtains or screens reducing heat or light intensity (means against intense light blinding the driver or passengers B60J 3/00)}

References

Limiting references

This place does not cover:

Means against intense light blinding the driver or passengers	B60J 3/00

Informative references

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

Furnishings for windows or doors; curtains	A47H

B60J 3/00

Antiglare equipment associated with windows or windscreens (optical viewing arrangements for vehicles B60R 1/00); Sun visors for vehicles (sun visors having appliances for storing or holding personal property B60R 7/05)

Definition statement

This place covers:

Means against intense light blinding the driver or passengers. The equipment is intended for use during driving, although sometimes it additionally could be used for vehicles not in use (e.g. parked). As the equipment is used to prevent blinding the eyes of the driver, it will mainly be arranged in the area of the windshield.

References

Informative references

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

Sun visors in motor helms	A42B 3/22

B60J 5/00

Doors (B60J 10/00 takes precedence; window aspects B60J 1/00 {; side board or tailgate structures for open load compartments B62D 33/023})

Definition statement

This place covers:

The structural aspects of vehicle doors.

References

Limiting references

This place does not cover:

Boot lids	B62D 25/10
Hinges of doors	E05D 15/00

Informative references

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

Production methods of hemming equipment	B21D 39/00
Armrests	B60N 2/78
Door trims	B60R 13/0243
Electric wiring, connectors	B60R 16/00
Doors for containers	B65D 90/008
- rotating about horizontal axis	B65D 90/0086
- flexible side doors	B65D 90/021
Locks for vehicles	E05B 77/00 – E05B 85/00
Inner door handles	E05B 85/12
Hinges	E05D
Suspension of doors	E05D 15/00
- with pivoted arms and sliding guides (e.g. used in public transport)	E05D 15/30
- with two pairs of arms and opening parallel to themselves (e.g. used in public transport)	E05D 15/34
Gas springs assisting in opening doors.	E05F 1/1091
Window lifters	E05F 11/00
Obstruction detection (anti pinch)	E05F 15/40
Hydraulic struts assisting in opening doors.	E05F 15/53, E05Y 2900/50
Remote sensoring using proximity fuzes	F42C 13/00
Remote sensoring using proximity switches	H03K 17/00, H03K 17/945

Special rules of classification

Side curtains of lorries are considered as doors, not as being part of the roof.

The groups B60J 5/0497 and E05D 15/34 sometimes overlap, as well as the groups B60J 5/062 and E05D 15/34. As a general rule, the B60J 5/00 groups should contain the more structural aspects of the door, whereas the E05D 15/00 groups should contain the aspects of the hinges of the hinges of the door.

B60J 7/00

Non-fixed roofs; Roofs with movable panels {, e.g. rotary sunroofs} (B60J 10/00 takes precedence; window aspects B60J 1/00; fixed roofs B62D 25/06; mechanisms for operating wings E05F 11/00, E05F 15/00)

Definition statement

This place covers:

Retractable or collapsible roof structures

References

Limiting references

This place does not cover:

Tarpaulins or nets directly placed over load on load transporting vehicles	B60P

Informative references

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

Rear windows in retractable roof	B60J 1/1807
Roller blinds for windows	B60J 1/2013
Soft top cloth material (laminar)	B32B
Trims for roofs	B60R 13/0212
Roll-over protection	B60R 21/13
Containers for transport with the top being closable by a flexible element	B65D 88/125
Containers for transport with the top being closable by a rigid element	B65D 88/126
Obstruction detection (anti-pinch)	E05F 15/40, E05Y 2900/50
Hydraulics	F15B 7/00, F15B 13/00

Special rules of classification

The scheme is complex, but with the questions: "is the roof or roof element slidable or not" and "is the roof or roof element rigid or not" the correct group for classification can be identified.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Plate-like element	a more or less flat and rigid element, e.g. a glass plate for a sun roof
Non plate-like element	a rigid element with pronounced curvatures, e.g. a one-piece hardtop
Foldable	not only for a flexible cloth, but also for two or more rigid elements that are moving and connected to each other during opening of roof.

Synonyms and Keywords

In patent documents, the following abbreviations are often used:

Landaulet	roof over rear seats is retractable, roof over front seats is fixed or non-existing
Targa	roof with completely removable roof section between windshield and full width roof structure behind the rear seats functioning as roll-over bar
T-top	like Targa, but with a central fixed beam running from windshield to roof structure behind the rear seats

B60J 9/00

Devices not provided for in one of main groups B60J 1/00 - B60J 7/00 (B60J 10/00 takes precedence)

Definition statement

This place covers:

Peculiar window, door, roof systems not covered by the main groups

- Air curtains;
- peculiar entrance or exit closures other than windows or doors, e.g. for emergency escape openings.

B60J 10/00

Sealing arrangements

Definition statement

This place covers:

Sealing of windows, doors or roofs of vehicles.

Relationships with other classification places

F16J is the generic place for functional features of sealings, in this main group the sealings are specially adapted for vehicle openings, e.g. doors or windows

References

Informative references

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

Sash guides and glass runs	B60J 5/0402
Machines for fitting together the vehicle part and seal	B23P 19/047
Hand tools moving along seal for insertion in or removal from groove or profile	B25B 27/0092
Injection molding	B29C 45/00
positioning of article in mould	B29C 45/14065
with additional insert, e.g. fastening element	B29C 45/14377
on a glass plate	B29C 45/14434
Extrusion molding	B29C 48/00

Blow molding	B29C 49/00
Extrusion blow molding	B29C 49/04
Sealing arrangements for other vehicle parts	B60R 13/06
Sealings in general	F16J 15/00

B60J 10/45

{Assembling sealing arrangements with vehicle parts}

Relationships with other classification places

For search, attention should be drawn to group B62D 65/06.

Special rules of classification

The assembly of weather strips or seals with vehicle parts are classified in group B60J 10/45. Details about the machines used for fitting together a vehicle part and the seal are classified in B23P 19/00.

B60J 11/00

Removable external protective coverings specially adapted for vehicles or parts of vehicles, e.g. parking covers (covering of load on vehicles B60P 7/00; guard strips for body finishing, identifying or decorating B60R 13/04; tents for use as garages E04H 15/00)

Definition statement

This place covers:

Protective covers for vehicles, the vehicle might be in use or not in use.

References

Limiting references

This place does not cover:

Tents for use as garages	E04H 15/00

Informative references

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

Protection against rain when opening vehicle door	B60J 5/0494