

## 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, windcreens, 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	<a href="#">B61- B64</a>
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#### Informative references

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

Locks; accessories therefor; handcuffs	<a href="#">E05B</a>
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.	<a href="#">E05F</a>
Fixed or movable closures for openings in buildings, vehicles, fences, or like enclosures, in general, e.g. doors windows, blinds, gates.	<a href="#">E06B</a>

## 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	<a href="#">B60J 7/00</a>
Fixed roof windows	<a href="#">B62D 25/06</a>

#### Informative references

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

Bullet proof windows	<a href="#">F41H 5/00</a> , <a href="#">F41H 7/00</a>
Releasing window panes- by cutting seal for window removal with a wire	<a href="#">B26B 27/00</a>
by cutting seal with laser	<a href="#">B23K 26/402</a>
-severing seal other than cutting	<a href="#">B26F 3/00</a>
Repairing windshields- using resin for repairing layered glass sheet-	<a href="#">B32B 17/10963</a>
-using liquid or paste-like material for repairing articles made from plastic	<a href="#">B29C 73/025</a>
Manufacturing window panes:- joining of preformed parts (e.g. window and seal)	<a href="#">B29C 65/00</a>
laminated glazing	<a href="#">B32B 17/00</a> , <a href="#">B32B 17/06</a> , <a href="#">B32B 17/10</a>
-surface treatment by coating	<a href="#">C03B 17/00</a>
reforming shaped glass (bending)	<a href="#">C03B 23/00</a>
cutting glass	<a href="#">C03B 33/00</a>
seals bonded or moulded to glass	<a href="#">B29C 33/0044</a>
compression moulding of seals onto window	<a href="#">B29C 43/00</a>
injection moulding of seals onto window	<a href="#">B29C 45/14434</a>
production of double windows for vehicles	<a href="#">E06B 2003/67395</a>
Partitioning windows in interior of vehicle - for acoustic insulation	<a href="#">B60R 13/0823</a>
as safety guard between passenger and load compartment	<a href="#">B60R 21/026</a>
to protect passenger against attack	<a href="#">B60R 21/12</a>
Roller blinds - in buildings	<a href="#">E06B 9/40</a>
for covering luggage space	<a href="#">B60R 5/047</a>

Obstruction detection for windows	<a href="#">E05F 15/40</a> , <a href="#">E05Y 2900/50</a>
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## 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	<a href="#">B60J 3/00</a>
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#### Informative references

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

Furnishings for windows or doors; curtains	<a href="#">A47H</a>
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## 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 helmets	<a href="#">A42B 3/22</a>
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## 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	<a href="#">B62D 25/10</a>
Hinges of doors	<a href="#">E05D 15/00</a>

### Informative references

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

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

### 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	<a href="#">B60P</a>
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#### Informative references

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

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

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

Blow molding	<a href="#">B29C 49/00</a>
Extrusion blow molding	<a href="#">B29C 49/04</a>
Sealing arrangements for other vehicle parts	<a href="#">B60R 13/06</a>
Sealings in general	<a href="#">F16J 15/00</a>

## B60J 10/45

{Assembling sealing arrangements with vehicle parts}

### Relationships with other classification places

For search attention should be drawn to the existing IPC group **B62D65/08** which has a similar scope but is not used in CPC.

### 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	<a href="#">E04H 15/00</a>
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#### Informative references

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

Protection against rain when opening vehicle door	<a href="#">B60J 5/0494</a>
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