

CPC**COOPERATIVE PATENT CLASSIFICATION****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](#))

NOTES

1. 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](#).
2. Attention is drawn to the Note following the title of class [B60](#).

B60J 1/00

Windows; Windcreens; 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](#)})

- [B60J 1/001](#) . {Double glazing for vehicles}
- [B60J 1/002](#) . {with means for clear vision, e.g. anti-frost or defog panes, rain shields (window heating in [H05B 3/84](#), [H05B 3/86](#))}
- [B60J 1/003](#) . {Rear seat windcreens}
- [B60J 1/004](#) . {Mounting of windows}
- [B60J 1/005](#) . . {using positioning means during mounting}
- [B60J 1/006](#) . . {characterised by fixation means such as clips, adhesive, etc. (incorporated in seal [B60J 10/70](#))}
- [B60J 1/007](#) . . {received in frames to be attached to vehicle}
- [B60J 1/008](#) . {of special shape, e.g. beveled edges, holes for attachment, bent windows, peculiar curvatures such as when being integrally formed with roof, door, etc.}
- [B60J 1/02](#) . arranged at the vehicle front {e.g. structure of the glazing, mounting of the glazing (on windscreen mounted antenna wire [H01Q 1/1271](#))}
- [B60J 1/025](#) . . {Temporary windcreens}
- [B60J 1/04](#) . . adjustable
- [B60J 1/06](#) . . . comprising more than one pane
- [B60J 1/08](#) . arranged at vehicle sides
- [B60J 1/085](#) . . {removably mounted}
- [B60J 1/10](#) . . fixedly mounted {([B60J 1/085](#) takes precedence)}
- [B60J 1/12](#) . . adjustable
- [B60J 1/14](#) . . . with pivotal or rotary movement
- [B60J 1/16](#) . . . slidable
- [B60J 1/17](#) vertically
- [B60J 1/18](#) . arranged at the vehicle rear {(optical viewing arrangements integrated in rear windows, e.g. Fresnel lenses [B60R 1/001](#))}
- [B60J 1/1807](#) . . {movable for vehicles with convertible top}

- B60J 1/1815 . . . {non-adjustably mounted in and moving with the soft-top cover}
- B60J 1/1823 . . . {adjustable relative to hard- or soft-top, e.g. pivotable}
- B60J 1/183 {slidable}
- B60J 1/1838 . . {movable for non-convertible vehicles, including vehicles with versatile load area}
- B60J 1/1846 . . . {where the window can slide}
- B60J 1/1853 {horizontally in direction transverse to vehicle longitudinal axis}
- B60J 1/1861 {vertically, e.g. into lower part of rear door before opening rear door}
- B60J 1/1869 {to an end position parallel to roof}
- B60J 1/1876 . . . {where the window is pivotable relative to a stationary axis}
- B60J 1/1884 {about a horizontal axis}
- B60J 1/1892 . . . {where the window is translated by a linkage system}
- B60J 1/20 . . Accessories, e.g. wind deflectors, blinds ([antiglare provisions B60J 3/00](#); wind deflectors associated with roof openings [B60J 7/22](#); removable external protective coverings for windows or windscreens [B60J 11/08](#); {aerodynamical spoiler for vehicles [B62D 35/00](#)}; heating arrangements specially adapted for transparent or reflecting areas [H05B 3/84](#))
- B60J 1/2002 . . {Wind deflectors specially adapted for preventing soiling, e.g. for side windows ([integral with sealing arrangements B60J 10/72](#))}
- B60J 1/2005 . . . {for windscreens}
- B60J 1/2008 . . . {for rear windows}
- B60J 1/2011 . . {Blinds; curtains or screens reducing heat or light intensity ([means against intense light blinding the driver or passengers B60J 3/00](#))}
- B60J 1/2013 . . . {Roller blinds (for roofs [B60J 7/0015](#); for luggage covering [B60R 5/047](#); for openings in buildings [E06B 9/40](#))}
- B60J 1/2016 {Control means for actuating the roller blind, e.g. using electronic control}
- B60J 1/2019 {powered, e.g. by electric, hydraulic or pneumatic actuators}
- B60J 1/2022 {with screw rods or extensible rods acting on the draw bar for pushing or push-pulling ([pivoting arms B60J 1/2055](#))}
- B60J 1/2025 {with flexible actuating elements connected to the draw bar for pulling only, e.g. cords, wires or cables}
- B60J 1/2027 {with a buckle-proof guided flexible actuating element acting on the draw bar for pushing or push-pulling, e.g. a Bowden cable}
- B60J 1/203 {Mechanism for actuation by hand, e.g. cranks or curtain cords}
- B60J 1/2033 {characterised by the spring motor}
- B60J 1/2036 {characterised by structural elements}
- B60J 1/2038 {Storage boxes}
- B60J 1/2041 {Blind sheets, e.g. shape of sheets, reinforcements in sheets, materials therefor}
- B60J 1/2044 {Draw bars, including elements attached to it, e.g. sliding shoes, gripping elements or pull cords}
- B60J 1/2047 {End position holding means, e.g. suction cups, hooks on a vehicle, indentations on guides}

B60J 1/205	. . . . .	{Winding tubes, e.g. telescopic tubes or conically shaped tubes}
B60J 1/2052	. . . . .	{Guides}
B60J 1/2055	. . . . .	{Pivoting arms}
B60J 1/2058	. . . . .	{Springs for compensating the number of windings of the blind on the tube in case winding tube and draw bar are driven together}
B60J 1/2061	. . . . .	{Tensioning systems for keeping the blind taut when in use, other than spring motors}
B60J 1/2063	. . . . .	{Mounting arrangements for roller blind or its storage box, e.g. integration into beltline or window frame}
B60J 1/2066	. . . . .	{Arrangement of blinds in vehicles}
B60J 1/2069	. . . . .	{of multiple blinds, e.g. more than one blind per window or per actuation system}
B60J 1/2072	. . . . .	{Blinds with inclined or vertical orientation of the winding axis}
B60J 1/2075	. . . . .	{specially adapted for fixed windows}
B60J 1/2077	. . . . .	. {for windshields}
B60J 1/208	. . . . .	. {for rear windows}
B60J 1/2083	. . . . .	. {for side windows, e.g. quarter windows}
B60J 1/2086	. . . . .	. {specially adapted for openable windows, e.g. side window}
B60J 1/2088	. . . . .	. {Lamellar or like blinds}
B60J 1/2091	. . . . .	. {Foldable sunscreens (B60J 1/2088 takes precedence)}
B60J 1/2094	. . . . .	. {Protective means for window, e.g. additional panel or foil, against vandalism, dirt, wear, shattered glass, etc.}
B60J 1/2097	. . . . .	. {means to prevent rattling of vehicle windows (anti-rattling means for vehicle doors E05F 7/02)}

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](#))

B60J 3/002	. . . . .	{External sun shield, e.g. awning or visor}
B60J 3/005	. . . . .	. {for side windows}
B60J 3/007	. . . . .	. {Sunglare reduction by coatings, interposed foils in laminar windows, or permanent screens (layered glass products B32B 17/00 ; process of coating windows C03C 17/00)}
B60J 3/02	. . . . .	. adjustable in position {(B60J 3/002 , B60J 3/005 take precedence)}
B60J 3/0204	. . . . .	. {Sun visors}
B60J 3/0208	. . . . .	. {combined with auxiliary visor}
B60J 3/0213	. . . . .	. {characterised by the mounting means (B60J 3/0208 takes precedence)}
B60J 3/0217	. . . . .	. {Brackets for mounting the sun visor support arm to the vehicle}
B60J 3/0221	. . . . .	. {self mounting, i.e. no tools or screws required}
B60J 3/0226	. . . . .	. {comprising a ball joint or at least two axes of rotation}
B60J 3/023	. . . . .	. {Additional support bracket releasably holding the sun visor}
B60J 3/0234	. . . . .	. {Mounted slidably}

- B60J 3/0239 {and pivoting on a support arm (bearing members regulating the rotational friction on the support arm [B60J 3/0265](#))}
- B60J 3/0243 {sliding out from ceiling}
- B60J 3/0247 {using a suction cup}
- B60J 3/0252 {Structure of the support arm}
- B60J 3/0256 {telescopic}
- B60J 3/026 {articulated, e.g. comprising pivot joints or lazy-tong structure}
- B60J 3/0265 {Attachments of sun visors to mounting means including details of sun visor bearing member regulating the rotational friction on the support arm}
- B60J 3/0269 {in middle region of sun visor}
- B60J 3/0273 {on both end regions of sun visor}
- B60J 3/0278 {structure of the body ([B60J 3/0208](#), [B60J 3/0213](#) take precedence)}
- B60J 3/0282 {specially adapted for a courtesy mirror}
- B60J 3/0286 . . . {Sunglare reduction by temporary translucent screens or foils removably attached to window}
- B60J 3/0291 . . . {Preventing dazzlement during driving in the dark}
- B60J 3/0295 {due to reflections in side or rear mirror}
- B60J 3/04 . . . adjustable in transparency
- B60J 3/06 . . . using polarising effect
- 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](#)})
- B60J 5/02 . . . arranged at the vehicle front {(lids or bonnets [B62D 25/10](#))}
- B60J 5/04 . . . arranged at the vehicle sides {(panel mounted arm-rests [B60N 2/466](#); wall liners [B60R 13/02](#); door edge guards [B60R 13/043](#); padded linings associated with the side doors [B60R 21/0428](#))}
- B60J 5/0401 . . . {Upper door structure}
- B60J 5/0402 {window frame details, including sash guides and glass runs}
- B60J 5/0404 {Outside rear view mirror support}
- B60J 5/0405 {Inboard or outboard side of window frame formed integrally with the lower door structure}
- B60J 5/0406 {window frame formed separately as module}
- B60J 5/0408 {fastening window frame or parts of window frame to lower door structure}
- B60J 5/0409 {mechanism preventing outward displacement of window frame at high speeds ([ventilation valves B60H](#))}
- B60J 5/0411 . . . {Beltline}
- B60J 5/0412 . . . {Lower door structure}
- B60J 5/0413 {Inner panel, e.g. characterised by carrying components}
- B60J 5/0415 {Outer panel}
- B60J 5/0416 {Assembly panels to be installed in doors as a module with components, e.g. lock or window lifter, attached thereto}

B60J 5/0418	. . .	{Water or sound barrier, e.g. watershields or seals between dry/wet compartment, sound or vibration dampers}
B60J 5/0419	. . .	{Windows in lower door structures}
B60J 5/042	. .	{Reinforcement elements}
B60J 5/0422	. . .	{Elongated type elements, e.g. beams, cables, belts or wires}
B60J 5/0423	. . . .	{characterised by position in the lower door structure}
B60J 5/0425	. . . . .	{the elements being arranged essentially horizontal in the centre of the lower door structure (B60J 5/0426 to B60J 5/0448 take precedence)}
B60J 5/0426	. . . . .	{the elements being arranged at the beltline}
B60J 5/0427	. . . . .	{the elements being arranged along the lower edge of door}
B60J 5/0429	. . . . .	{the elements being arranged diagonally}
B60J 5/043	. . . . .	{the elements being arranged vertically}
B60J 5/0431	. . . . .	{the elements being arranged at the hinge area}
B60J 5/0433	. . . . .	{the elements being arranged at the lock area}
B60J 5/0434	. . . . .	{the elements being arranged at the handle area}
B60J 5/0436	. . . . .	{the elements being arranged at the mirror area}
B60J 5/0437	. . . .	{characterised by the attachment means to the door, e.g. releasable attachment means}
B60J 5/0438	. . . .	{characterised by the type of elongated elements}
B60J 5/044	. . . . .	{the elements being flexible, e.g. belts, cables or wires}
B60J 5/0441	. . . . .	{the elements having a grid-like structure, i.e. interconnected or interwoven elements}
B60J 5/0443	. . . . .	{Beams}
B60J 5/0444	. . . . .	{characterised by a special cross section}
B60J 5/0445	. . . . .	{formed of several elements arranged in series}
B60J 5/0447	. . . . .	{formed of several elements arranged in parallel}
B60J 5/0448	. . . . .	{with branched structures}
B60J 5/045	. . .	{Panel type elements (B60J 5/0455 takes precedence)}
B60J 5/0451	. . .	{Block or short strip-type elements (beams B60J 5/0443 , position thereof B60J 5/0423)}
B60J 5/0452	. . .	{including foams or expanded materials}
B60J 5/0454	. . . .	{being expanded onto door panel and forming a laminar structure with door panel, e.g. a rib}
B60J 5/0455	. . .	{integrated in door structure or other door elements, e.g. beam-like shapes stamped in inner door panel}
B60J 5/0456	. . .	{Behaviour during impact}
B60J 5/0458	. . . .	{Passive coupling of the reinforcement elements to the door or to the vehicle body}
B60J 5/0459	. . . .	{Active coupling of the reinforcement elements to the door or to the vehicle body, e.g. through releasing of pressurized gas}
B60J 5/0461	. . . .	{characterised by a pre-defined mode of deformation or displacement in order to absorb impact}

B60J 5/0462	. . . . {the impact being a frontal impact}
B60J 5/0463	. . {Conceptual assembling of door, i.e. how door frame parts should be fitted together to form door}
B60J 5/0465	. . . {using tailored blanks}
B60J 5/0466	. . . {using cast parts}
B60J 5/0468	. . {Fixation or mounting means specific for door components (fasteners in general F16B 21/00)}
B60J 5/0469	. . . {for door panels, e.g. hemming (hemming equipment B21D 39/00)}
B60J 5/047	. . {characterised by the opening or closing movement}
B60J 5/0472	. . . {the door having a hinge axis in horizontal direction transverse to vehicle longitudinal axis}
B60J 5/0473	. . . {the door having a hinge axis in the direction of the vehicle longitudinal axis}
B60J 2005/0475	. . . {due to absence of the B-pillar}
B60J 5/0476	. . . {convertible doors, e.g. window frame is stored in lower door structure}
B60J 5/0477	. . . {with two doors opening in opposite direction}
B60J 5/0479	. . . . {without B-pillar or releasable B-pillar, i.e. the pillar is moving with door}
B60J 5/048	. . {characterised by the material}
B60J 5/0481	. . . {plastic}
B60J 5/0483	. . . {lightweight metal, e.g. aluminum, magnesium}
B60J 5/0484	. . . {hybrid, i.e. plastic moulded onto metal parts}
B60J 5/0486	. . {Special type}
B60J 5/0487	. . . {simplified doors related to cabins of e.g. golf carts, tractors, jeeps, cranes, forklifts, etc.}
B60J 5/0488	. . . {rectangular of shape, e.g. as found in old fashioned cars and coaches}
B60J 5/049	. . . {caravan door}
B60J 5/0491	. . . {lid, e.g. for luggage compartment accessible at vehicle side (B60J 5/0498 takes precedence)}
B60J 5/0493	. . {Appurtenances}
B60J 5/0494	. . . {Rain covers deployed upon opening door}
B60J 5/0495	. . . {Finger guards (for doors in general E06B 7/36 , with sensors E05F 15/42)}
B60J 5/0497	. . {for load transporting vehicles or public transport, e.g. lorries, trucks, buses}
B60J 5/0498	. . . {with rigid panels pivoting about a horizontal axis}
B60J 5/06	. . slidable; foldable
B60J 5/062	. . . {for utility vehicles or public transport (B60J 5/08 takes precedence)}
B60J 5/065	. . . . {with non-rigid elements, e.g. side curtains (B60J 7/062 , B60J 7/068 take precedence)}
B60J 5/067	. . . . . {vertically movable}
B60J 5/08	. . . of roller-blind type {made of rigid elements}

- B60J 5/10
 - arranged at the vehicle rear ([B60J 5/04](#) takes precedence {; bonnets or lids [B62D 25/10](#); tail gates for pick-up trucks [B62D 33/0273](#); counterbalancing [E05F](#); springs, e.g. pneumatic [F16F](#)})
- B60J 5/101
 - • {for non-load transporting vehicles, i.e. family cars including vans}
- B60J 5/102
 - • • {comprising door or part of door being pivotable downwards about horizontal axis to open position}
- B60J 5/103
 - • • • {where lower door part moves independently from other door structures, e.g. by being hinged on the vehicle body}
- B60J 5/104
 - • • • {where lower door part optionally moves independently, or follows as component the movement of the entire door structure, e.g. by being hinged in a door frame or releasably connected to upper door part}
- B60J 5/105
 - • • {comprising door or part of door being pivotable about vertical axis}
- B60J 5/106
 - • • {comprising door or part of door being moveable by a linkage system to open/close position}
- B60J 5/107
 - • • {constructional details, e.g. about door frame, panels, materials used, reinforcements}
- B60J 5/108
 - • {for load transporting vehicles or public transport, e.g. lorries, trucks, buses}
- B60J 5/12
 - • slidable; foldable
- B60J 5/125
 - • • {for utility vehicles or public transport ([B60J 5/14](#) takes precedence)}
- B60J 5/14
 - • • of roller-blind type {made of rigid elements}
- 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](#))
- B60J 7/0007
 - {moveable head-liners, screens, curtains or blinds for ceilings}
- B60J 7/0015
 - • {roller blind}
- B60J 7/0023
 - • {flexible and foldable}
- B60J 7/003
 - • {one or more sliding rigid plate or lammellae}
- B60J 7/0038
 - • • {stored in stacked fashion}
- B60J 7/0046
 - • {side blind between roof and panel in vent mode}
- B60J 7/0053
 - {Collapsible lateral roof side beams}
- B60J 7/0061
 - • {where the beam moves inwardly during folding of roof, e.g. by swiveling, sliding or translation, to disconnect the beam from windshield header}
- B60J 7/0069
 - • {where the beam itself is folded and moves inwardly, e.g. concertina type}
- B60J 7/0076
 - {separately collapsible C-pillars, e.g. by folding inwardly or sliding ([B60J 7/126](#) takes precedence)}
- B60J 7/0084
 - {Water draining for non-fixed roofs or roof panels (for fixed roofs not integral with roof structure [B60R 13/06](#), for fixed roofs integral with roof structure [B62D 25/07](#))}
- B60J 7/0092
 - • {by inflating the roof (inflatable soft tops [B60J 7/1256](#))}
- B60J 7/02
 - of sliding type {e.g. comprising guide shoes}
- B60J 7/022
 - • {Sliding roof trays or assemblies}
- B60J 7/024
 - • {characterised by the height regulating mechanism of the sliding panel ([B60J 7/043](#) to [B60J 7/053](#) take precedence)}
- B60J 7/026
 - • {with rigid non plate-like elements, e.g. for convertible vehicles}

- B60J 7/028 . . . {the sliding movement being combined with a pivoting movement}
- B60J 7/04 . . with rigid plate-like element or elements {e.g. open roofs with harmonica-type folding rigid panels ([B60J 7/061](#) takes precedence)}
- B60J 7/041 . . . {for utility vehicles, e.g. with slidable and foldable rigid panels}
- B60J 7/042 {with a vertical lifting or folding movement (non-sliding roof panels movable for lifting [B60J 7/1614](#))}
- B60J 7/043 . . . Sunroofs ([B60J 7/047](#) to [B60J 7/053](#) take precedence) {e.g. sliding above the roof}
- B60J 7/0435 {pivoting upwardly to vent mode and moving at the outside of the roof to fully open mode}
- B60J 7/047 . . . movable to overlapping or nested relationship {([B60J 7/041](#) takes precedence)}
- B60J 7/05 . . . pivoting upwardly to vent mode and moving downward before sliding to fully open mode
- B60J 7/053 . . . sliding with final closing motion having vertical component to attain closed and sealed condition {e.g. sliding under the roof}
- B60J 7/057 . . . Driving or actuating arrangements ([B60J 7/047](#) to [B60J 7/053](#) take precedence) {e.g. manually operated levers or knobs}
- B60J 7/0573 {power driven arrangements, e.g. electrical}
- B60J 7/0576 {fluid}
- B60J 7/06 . . with non-rigid element or elements
- B60J 7/061 . . . {sliding and folding}
- B60J 7/062 {for utility vehicles ([B60J 7/065](#) takes precedence)}
- B60J 7/063 {for public transport ([B60J 7/066](#) takes precedence)}
- B60J 7/064 {using folding arms sliding in longitudinal tracks for supporting the soft roof}
- B60J 7/065 {for utility vehicles}
- B60J 7/066 {for public transport}
- B60J 7/067 . . . {sliding and winding up}
- B60J 7/068 {for utility vehicles, e.g. of tarpaulin or roller-blind type}
- B60J 7/08 . . of non-sliding type, i.e. movable or removable roofs or panels, e.g. let-down tops or roofs capable of being easily detached or of assuming a collapsed or inoperative position
- B60J 7/085 . . {winding up, e.g. for utility vehicles}
- B60J 7/10 . . readily detachable, e.g. tarpaulins with frames, or fastenings for tarpaulins (covering of loads on vehicles by tarpaulins [B60P 7/04](#))
- B60J 7/102 . . . {Readily detachable tarpaulins, e.g. for utility vehicles; Frames therefor}
- B60J 7/104 {Fastening means for tarpaulins}
- B60J 7/106 . . . {readily detachable hard-tops (storage compartment for collapsible flexible tops [B60J 7/20](#))}
- B60J 7/108 {Foldable rear hoods therefor}
- B60J 7/11 . . . Removable panels, e.g. sunroofs
- B60J 7/12 . . foldable; Tensioning mechanisms therefor, e.g. struts ([B60J 7/10](#), [B60J 7/20](#) take precedence)

B60J 7/1204	. . .	{Control devices, e.g. for compensating tolerances, for defining movement or end position of top, for tensioning the top or for switching to an emergency mode}
B60J 2007/1208	. . . .	{Control devices}
B60J 2007/1213	. . . .	{Fastening devices}
B60J 2007/1217	. . . .	{Pretensioning devices closing the roof aperture when released}
B60J 2007/1221	. . . .	{construction details of the arches}
B60J 7/1226	. . .	{Soft tops for convertible vehicles}
B60J 7/123	. . . .	{characterised by means for fastening the soft top cloth to the arches or vehicle body work}
B60J 7/1234	. . . .	{characterised by arches, e.g. shape or material}
B60J 7/1239	. . . . .	{Front bow}
B60J 7/1243	. . . . .	{Intermediate bows}
B60J 7/1247	. . . . .	{Tensioning bow at rear of soft top}
B60J 7/1252	. . . . .	{characterised by lateral arches (foldable side roof beams B60J 7/0053 ; linkage arms B60J 7/1265)}
B60J 7/1256	. . . .	{Inflatable soft tops}
B60J 7/126	. . . .	{for landaulet-type vehicles, i.e. using a collapsible upper structure of the vehicle body}
B60J 7/1265	. . . .	{characterised by kinematic movements, e.g. using parallelogram linkages (B60J 7/126 takes precedence)}
B60J 7/1269	. . . . .	{with remote power control}
B60J 7/1273	. . . . .	{using hydraulic means}
B60J 7/1278	. . . . .	{the complete top rotating around a single main axis on the vehicle body (B60J 7/1282 takes precedence)}
B60J 7/1282	. . . . .	{foldable against a main arch before attaining fully open mode}
B60J 7/1286	. . . . .	{including folding of the quarter windows}
B60J 7/1291	. . .	{Soft tops for closed vehicle bodies}
B60J 7/1295	. . .	{Temporary soft tops for seats outside passenger compartments, e.g. rumble seats, chauffeur seats}
B60J 7/14	. . .	with a plurality of {rigid} plate-like elements {or rigid non plate-like elements, e.g. with non-slidable, but pivotable or foldable movement}
B60J 7/141	. . . .	{for covering load areas, e.g. for pick-up trucks}
B60J 7/143	. . . .	{for covering the passenger compartment}
B60J 7/145	. . . . .	{at least two elements being folded in clamp-shell fashion}
B60J 7/146	. . . . .	{all elements being folded in same orientation and stacked fashion}
B60J 7/148	. . . . .	{at least one element being stored in vertical fashion}
B60J 7/16	. .	non-foldable {and rigid, e.g. a one-piece hard-top or a single rigid roof panel} (B60J 7/10 takes precedence)
B60J 7/1607	. . .	{for covering load areas, e.g. rigid panels for pick-up truck beds}
B60J 7/1614	. . . .	{with a vertical lifting movement maintaining the inclination of the roof or panel}
B60J 7/1621	. . . .	{hinged on one side}

- B60J 7/1628 . . . {for covering the passenger compartment}
- B60J 7/1635 {of non-convertible vehicles}
- B60J 7/1642 {Roof panels, e.g. sunroofs or hatches, movable relative to the main roof structure, e.g. by lifting or pivoting}
- B60J 7/165 {at least a major part of the roof being lifted on all corners}
- B60J 7/1657 {at least a major part of the roof pivoting about a stationary axis}
- B60J 7/1664 {of convertible vehicles (foldable rear hoods for readily detachable hard-tops [B60J 7/108](#))}
- B60J 7/1671 {the roof pivoting about a stationary axis}
- B60J 7/1678 {the axis being horizontal}
- B60J 7/1685 {the axis being vertical}
- B60J 7/1692 {the roof being movable by a linkage system}
- B60J 7/185 . . Locking arrangements ([locks in general E05B](#))
- B60J 7/1851 . . {for locking the foldable soft- or hard-top to the windshield header}
- B60J 7/1853 . . . {locking mechanism arranged in windshield header}
- B60J 7/1855 . . {for locking or immobilising roof elements when stored}
- B60J 7/1856 . . {for interlocking the roof linkage system when deployed}
- B60J 7/1858 . . {for locking soft tops to a surrounding rigid roof structure, e.g. to a closed vehicle body ([B60J 7/1291](#) takes precedence)}
- B60J 7/19 . . for rigid panels ([B60J 7/1851](#) to [B60J 7/1856](#) take precedence)}
- B60J 7/192 . . . {for locking the sunroof panel to the roof}
- B60J 7/194 . . . {for locking detachable hard-tops or removable roof panels to the vehicle body}
- B60J 7/196 . . . {for locking or interconnecting rigid roof panels to each other}
- B60J 7/198 . . . {for locking tonneau covers such as covers for roof storage compartments or for pick-up truck beds}
- B60J 7/20 . . Vehicle storage compartments for roof parts {or for collapsible flexible tops}
- B60J 7/201 . . {being outside of vehicle, e.g. onto boot lid, or into a storage compartment to be closed by one of the roof panels itself}
- B60J 7/202 . . {being characterised by moveable cover parts for closing the gap between boot lid and rearmost seats}
- B60J 7/203 . . . {the cover part comprising cover side flaps}
- B60J 7/205 . . {where the boot lid opens in rearward direction to receive the roof and in forward direction to receive luggage}
- B60J 7/206 . . {being arranged at the vehicle front}
- B60J 7/207 . . {being adjustable in volume, i.e. collapsible in order to increase luggage space in boot when roof is not stored}
- B60J 7/208 . . {with improved trunk access by moving the folded roof package when opening the trunk lid for loading or unloading luggage}
- B60J 7/22 . . Wind deflectors for open roofs
- B60J 7/223 . . {specially adapted for convertible cars}
- B60J 7/226 . . {immovably attached to vehicle roof section}

B60J 9/00	Devices not provided for in one of main groups B60J 1/00 to B60J 7/00 (B60J 10/00 takes precedence)
B60J 9/02	<ul style="list-style-type: none"> Entrance or exit closures other than windows, doors, or in roofs, e.g. emergency escape closures in vehicle bottom {(Emergency exits for rail vehicles B61D 19/023)}
B60J 9/04	<ul style="list-style-type: none"> Air curtains (in general F24F)
B60J 10/00	Sealing arrangements
B60J 10/15	<ul style="list-style-type: none"> characterised by the material
B60J 10/16	<ul style="list-style-type: none"> <ul style="list-style-type: none"> consisting of two or more plastic materials having different physical or chemical properties (B60J 10/17 takes precedence)
B60J 10/17	<ul style="list-style-type: none"> <ul style="list-style-type: none"> provided with a low-friction material on the surface
B60J 10/18	<ul style="list-style-type: none"> <ul style="list-style-type: none"> provided with reinforcements or inserts
B60J 10/20	<ul style="list-style-type: none"> characterised by the shape
B60J 10/21	<ul style="list-style-type: none"> <ul style="list-style-type: none"> having corner parts or bends
B60J 10/22	<ul style="list-style-type: none"> <ul style="list-style-type: none"> having varying cross-section in the longitudinal direction
B60J 10/23	<ul style="list-style-type: none"> <ul style="list-style-type: none"> assembled from two or more parts (B60J 10/21 takes precedence)
B60J 10/233	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Modular sealing arrangements, i.e. arrangements built up from a large number of joined modules}
B60J 10/2335	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {with joint end members, e.g. abutting ends}
B60J 10/235	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> the parts being joined along their longitudinal direction
B60J 10/24	<ul style="list-style-type: none"> <ul style="list-style-type: none"> having tubular parts
B60J 10/242	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> with vent holes
B60J 10/244	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> inflatable or deflatable
B60J 10/246	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> having projections, e.g. ribs, within the tubular parts
B60J 10/248	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> having two or more tubular cavities, e.g. formed by partition walls
B60J 10/25	<ul style="list-style-type: none"> <ul style="list-style-type: none"> characterised by water drainage means
B60J 10/26	<ul style="list-style-type: none"> <ul style="list-style-type: none"> characterised by the surface shape
B60J 10/265	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> the surface being primarily decorative
B60J 10/27	<ul style="list-style-type: none"> <ul style="list-style-type: none"> having projections, grooves or channels in the longitudinal direction (for separately inserted fastening means, e.g. beads or strips, B60J 10/36)
B60J 10/273	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> for enclosing or housing devices for purposes other than sealing, e.g. cables
B60J 10/277	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> for facilitating specific deformation of sealing parts, e.g. for ensuring proper folding
B60J 10/30	<ul style="list-style-type: none"> characterised by the fastening means
B60J 10/32	<ul style="list-style-type: none"> <ul style="list-style-type: none"> using integral U-shaped retainers
B60J 10/33	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> characterised by the configuration of the retaining lips
B60J 10/34	<ul style="list-style-type: none"> <ul style="list-style-type: none"> using adhesives
B60J 10/345	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {with formless adhesives, e.g. hot melt}
B60J 10/35	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> using adhesive tapes, e.g. double-sided tapes
B60J 10/36	<ul style="list-style-type: none"> <ul style="list-style-type: none"> using separately inserted fastening means, e.g. using clips, beads or strips

- B60J 10/365 . . . {comprising beads}
- B60J 10/38 . . using magnetic means
- B60J 10/40 . characterised by contact between two or more cooperating sealing arrangements
- B60J 10/45 . {Assembling sealing arrangements with vehicle parts}
- B60J 10/50 . characterised by means for prevention or reduction of noise, e.g. of rattling or vibration of windows
- B60J 10/60 . characterised by defrosting arrangements
- B60J 10/70 . specially adapted for windows or windscreens
- B60J 10/72 . . with integral wind-deflecting means, e.g. for preventing soiling
- B60J 10/74 . . for sliding window panes, e.g. sash guides
- B60J 10/75 . . . for sealing the lower part of the panes
- B60J 10/76 . . . for window sashes; for glass run channels
- B60J 10/763 for preventing outward displacement of windows when at high speed
- B60J 10/767 for reducing air resistance due to the panes not being flush with the sash guide or glass run channel
- B60J 10/77 . . . for sashless windows, i.e. for frameless windows forming a seal directly with the vehicle body
- B60J 10/773 for preventing outward displacement of windows when at high speed
- B60J 10/777 the sealing arrangement being between the edges of adjacent panes
- B60J 10/7775 {mounted on the pillar}
- B60J 10/78 . . . adjacent to corner pieces, mirror supports or quarter windows
- B60J 10/79 . . . for flush-glass windows, i.e. for windows flush with the vehicle body or the window frame
- B60J 10/80 . specially adapted for opening panels, e.g. doors (for non-fixed roofs [B60J 10/90](#))
- B60J 10/82 . . for movable panels in roofs
- B60J 10/84 . . arranged on the vehicle body
- B60J 10/85 . . . {with additional seals on the body side}
- B60J 10/86 . . arranged on the opening panel
- B60J 10/87 . . . {with additional seals on the panel side}
- B60J 10/88 . . . mounted on, or integral with, the glass-run seals
- B60J 10/90 . specially adapted for non-fixed roofs, e.g. foldable roofs or removable hard-tops
- B60J 11/00** **Removable external protective coverings specially adapted for vehicles or part 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](#))
- B60J 11/02 . Covers wound on rollers
- B60J 11/025 . . {specially adapted for covering vehicle parts, e.g. for doors, windows or windscreens}
- B60J 11/04 . for covering at least the roof of the vehicle, e.g. for covering the whole vehicle

- B60J 11/06
 - for covering only specific parts of the vehicle, e.g. for doors ([covers or guards for traction couplings, hitches, draw-gear or towing devices B60D 1/60](#); [guards for wheels, radiators or bumpers B60R 19/00](#))
- B60J 11/08
 - . for windows or windscreens ([antiglare equipment B60J 3/00](#))
- B60J 11/10
 - . for wheels ([hub caps or the like B60B 7/00](#); external spare wheel stowing, holding or mounting arrangements [B62D 43/02](#))