

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](#))

NOTE

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](#) .

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

Guidance heading:**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 10/02](#); sealing sash guides for sliding window panes [B60J 10/04](#); 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 windscreens }

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 10/02](#)) }

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 windscreens }

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 10/025) }
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) }
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	.....	N: 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 ; process of coating windows C03C 17) }
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 F16B21](#)) }
- B60J 5/0469 ... { for door panels, e.g. hemming ([hemming equipment B21D39](#)) }
- 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 15/0021](#)) }
- 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 ([B60J12D](#) 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 . 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 . Air curtains ([in general \[F24F\]\(#\)](#))

- B60J 10/00** **Sealing arrangements ({sealing arrangements for other vehicle parts [B60R 13/06](#) }; sealings in general [F16J 15/00](#))**

- B60J 10/0002 . {characterised by the material }

- B60J 10/0005 .. {consisting of a plurality of plastic materials having different physical or chemical properties ([B60J 10/0008](#) takes precedence) }
- B60J 10/0008 .. {provided with a low-friction material on the surface }
- B60J 10/0011 .. {provided with reinforcements or inserts }

- B60J 10/0014 . {characterised by the shape }
- B60J 10/0017 .. {having corner parts or bends }
- B60J 10/002 .. {having variable cross-sections in the longitudinal direction }
- B60J 10/0022 .. {consisting of two or more parts assembled along their longitudinal direction ([B60J 10/0017](#) takes precedence) }
- B60J 10/0025 ... {Modular sealing arrangements, i.e. arrangements built up from a large number of joined modules }
- B60J 10/0028 {with joined end members, e.g. abutting ends }
- B60J 10/0031 .. {having tubular parts }
- B60J 10/0034 ... {with vent holes }
- B60J 10/0037 ... {being inflatable or deflatable }
- B60J 10/004 ... { having projections within tubular parts, e.g. ribs }
- B60J 10/0042 ... { having more than one tubular sealing cavity, e.g. separate tubular sealing parts or partitioning walls within tubular sealing part }
- B60J 10/0045 .. {having water drainage means }
- B60J 10/0048 .. {characterised by the surface shape }
- B60J 10/0051 ... {provided with decorations }
- B60J 10/0054 .. { having projections, grooves or channels in the longitudinal direction }
- B60J 10/0057 ... { for enclosing or housing cables or other functional devices }
- B60J 10/006 ... { for facilitating pre-defined deformation of sealing parts, e.g. to enhance proper folding }

- B60J 10/0062 . {characterised by the fastening means ([arrangements of fasteners and clips for inner vehicle liners](#) [B60R 13/0206](#)) ; Assembling sealing arrangements with vehicle parts }
- B60J 10/0065 .. {with integral "U"-shaped retainers }
- B60J 10/0068 ... {characterised by the configuration of the retaining lips }
- B60J 10/0071 .. {with adhesives }
- B60J 10/0074 ... {with premoulded adhesive tapes, e.g. double-sided tapes }
- B60J 10/0077 ... {with formless adhesives, e.g. hot melt }
- B60J 10/008 .. {with separately inserted fastening means ([B60J 10/0085](#) takes precedence) }
- B60J 10/0082 ... {comprising beads }
- B60J 10/0085 .. {with magnets }
- B60J 10/0088 .. {Assembling sealing arrangements with vehicle parts }

- B60J 10/0091 . {characterised by the way of contact between two or more cooperating sealing arrangements }

- B60J 10/0094 . { characterised by means for prevention of noise, e.g. window rattling or vibration }

- B60J 10/0097 . { characterised by defrosting arrangements, e.g. the heating of sealing }

- B60J 10/02 . for windows or windscreens { ([B60J 10/0002](#) to [B60J 10/0091](#) take precedence) }

- B60J 10/025 .. {with integral wind deflecting means for preventing soiling }
- B60J 10/04 .. for sliding window panes, e.g. sash guides
- B60J 10/041 ... {for sealing the lower part of the panes provided at the waist of the vehicle door }
- B60J 10/042 ... { for the window sash, e.g. glass run channels }
- B60J 10/043 { preventing outward displacement of window at high speed }
- B60J 10/044 { on corner pieces, e.g. on mirror supports or quarter windows }
- B60J 10/045 { with arrangements to reduce air resistance due to glazing not being flush with sash guide }
- B60J 10/046 ... { for sashless windows }
- B60J 10/047 { preventing outward displacement of window at high speed }
- B60J 10/048 { the sealing arrangement being between the edges of adjacent glazings }
- B60J 10/049 { mounted on the pillar }
- B60J 10/06 ... for flush-glass windows { i.e. flush with body or window frame ([B60J 10/041](#) takes precedence) }

- B60J 10/08 . for doors, {lids or bonnets ([B60J 10/0002](#) to [B60J 10/0091](#) take precedence) }
- B60J 10/081 .. { arranged on body side }
- B60J 10/083 ... { with additional seals on body side }
- B60J 10/085 .. { arranged on door side }
- B60J 10/086 ... { with additional seals on door side }
- B60J 10/088 ... { mounted on, or integral with, the glass-run sealing }

- B60J 10/10 . for non-fixed roofs, {e.g. foldable roofs, removable hard-tops and tarpaulins ([B60J 10/0002](#) to [B60J 10/0091](#) take precedence) }

- B60J 10/12 . for movable panels in roofs { ([B60J 10/0002](#) to [B60J 10/0091](#) take precedence) }

- 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](#))