

**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, 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](#).

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 10/02](#); 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 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 10/02](#) ) }

**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 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 <a href="#">B60R 1/001</a> })  |
| 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 <a href="#">B60J 3/00</a> ; wind deflectors associated with roof openings <a href="#">B60J 7/22</a> ; removable external protective coverings for windows or windscreens <a href="#">B60J 11/08</a> ; { aerodynamical spoiler for vehicles <a href="#">B62D 35/00</a> ; } heating arrangements specially adapted for transparent or reflecting areas <a href="#">H05B 3/84</a> ) |
| B60J 1/2002 | ..    | { Wind deflectors specially adapted for preventing soiling, e.g. for side windows ( integral with sealing arrangements <a href="#">B60J 10/025</a> ) }  |
| 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 <a href="#">B60J3</a> ) }  |
| B60J 1/2013 | ...   | { Roller blinds ( for roofs <a href="#">B60J 7/0015</a> ; for luggage covering <a href="#">B60R 5/047</a> ; for openings in buildings <a href="#">E06B 9/40</a> ) }   |
| 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 <a href="#">B60J 1/2055</a> ) }   |
| 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 ( <a href="#">B60J 1/2088</a> 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 <a href="#">E05F 7/02</a> ) }               |

**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  | .     | { Sun glare reduction by coatings, interposed foils in laminar windows, or permanent screens ( layered glass products <a href="#">B32B 17/00</a> ; process of coating windows <a href="#">C03C 17/00</a> ) } |
| B60J 3/02   | .     | adjustable in position { <a href="#">B60J 3/002</a> , <a href="#">B60J 3/005</a> take precedence }   |
| B60J 3/0204 | ..    | { Sun visors }   |
| B60J 3/0208 | ...   | { combined with auxiliary visor }  |
| B60J 3/0213 | ...   | { characterised by the mounting means ( <a href="#">B60J 3/0208</a> 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 ( <a href="#">B60J 5/0426</a> to <a href="#">B60J 5/0448</a> 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 ( <a href="#">B60J 5/0455</a> takes precedence ) }  |
| B60J 5/0451 | ...   | { Block or short strip-type elements ( beams <a href="#">B60J 5/0443</a> , position thereof <a href="#">B60J 5/0423</a> ) }   |
| 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 <a href="#">F16B 21/00</a> ) }  |
| B60J 5/0469    | ...   | { for door panels, e.g. hemming ( hemming equipment <a href="#">B21D 39/00</a> ) }   |
| 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 ( <a href="#">B60J 5/0498</a> takes precedence ) }  |
| B60J 5/0493    | ..    | { Appurtenances }  |
| B60J 5/0494    | ...   | { Rain covers deployed upon opening door }   |
| B60J 5/0495    | ...   | { Finger guards ( for doors in general <a href="#">E06B 7/36</a> , with sensors <a href="#">E05F 15/0021</a> ) }   |
| 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 ( <a href="#">B60J 5/08</a> takes precedence ) }  |
| B60J 5/065     | ....  | { with non-rigid elements, e.g. side curtains ( <a href="#">B60J 7/062</a> , <a href="#">B60J 7/068</a> 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 ( <a href="#">B60J 5/04</a> takes precedence { ; bonnets or lids <a href="#">B62D 25/10</a> ; tail gates for pick-up trucks <a href="#">B62D 33/0273</a> ; counterbalancing <a href="#">E05F</a> ; springs, e.g. pneumatic <a href="#">F16F</a> ) } |
| 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 {( <a href="#">B60J 7/041</a> 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 ( <a href="#">B60J 7/047</a> to <a href="#">B60J 7/053</a> 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 ( <a href="#">B60J 7/065</a> takes precedence )}   |
| B60J 7/063     | ....  | { for public transport ( <a href="#">B60J 7/066</a> 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 <a href="#">B60P 7/04</a> )                         |
| 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 <a href="#">B60J 7/20</a> )}   |
| 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 ( <a href="#">B60J 7/10</a> , { <a href="#">B60J 7/20</a> } 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 <a href="#">B60J 7/0053</a> ; linkage arms <a href="#">B60J 7/1265</a> ) }            |
| 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 ( <a href="#">B60J 7/126</a> 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 ( <a href="#">B60J 7/1282</a> 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 } ( <a href="#">B60J 7/10</a> 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 <a href="#">B60J 7/108</a> ) }                                    |
| 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 <a href="#">E05B</a> )   |

- 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](#) )