

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### TRANSPORTING

#### B60 VEHICLES IN GENERAL

(NOTE omitted)

#### 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](#).

##### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

<b>1/00</b>	<b>Windows; Windcreens; Accessories therefor</b> ( <a href="#">B60J 10/00</a> takes precedence; air curtains instead of windows <a href="#">B60J 9/04</a> ; sealing strips for windshields <a href="#">B60J 10/70</a> ; sealing sash guides for sliding window panes <a href="#">B60J 10/74</a> ; glass partitions inside vehicles to protect occupants against personal attack <a href="#">B60R 21/12</a> )	1/18	. arranged at the vehicle rear {(optical viewing arrangements integrated in rear windows, e.g. Fresnel lenses <a href="#">B60R 1/001</a> )}
1/001	. {Double glazing for vehicles}	1/1807	. . {movable for vehicles with convertible top}
1/002	. {with means for clear vision, e.g. anti-frost or defog panes, rain shields (window heating in <a href="#">H05B 3/84</a> , <a href="#">H05B 3/86</a> )}	1/1815	. . . {non-adjustably mounted in and moving with the soft-top cover}
1/003	. {Rear seat windcreens}	1/1823	. . . {adjustable relative to hard- or soft-top, e.g. pivotable}
1/004	. {Mounting of windows}	1/183	. . . . {slidable}
1/005	. . {using positioning means during mounting}	1/1838	. . {movable for non-convertible vehicles, including vehicles with versatile load area}
1/006	. . {characterised by fixation means such as clips, adhesive, etc. (incorporated in seal <a href="#">B60J 10/70</a> )}	1/1846	. . . {where the window can slide}
1/007	. . {received in frames to be attached to vehicle}	1/1853	. . . . {horizontally in direction transverse to vehicle longitudinal axis}
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.}	1/1861	. . . . {vertically, e.g. into lower part of rear door before opening rear door}
1/02	. arranged at the vehicle front {, e.g. structure of the glazing, mounting of the glazing (on windscreen mounted antenna wire <a href="#">H01Q 1/1271</a> )}	1/1869	. . . . {to an end position parallel to roof}
1/025	. . {Temporary windcreens}	1/1876	. . . {where the window is pivotable relative to a stationary axis}
1/04	. . adjustable	1/1884	. . . . {about a horizontal axis}
1/06	. . . comprising more than one pane	1/1892	. . . {where the window is translated by a linkage system}
1/08	. arranged at vehicle sides	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 windcreens <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> )
1/085	. . {removably mounted}	1/2002	. . {Wind deflectors specially adapted for preventing soiling, e.g. for side windows (integral with sealing arrangements <a href="#">B60J 10/72</a> )}
1/10	. . fixedly mounted {( <a href="#">B60J 1/085</a> takes precedence)}	1/2005	. . . {for windcreens}
1/12	. . adjustable	1/2008	. . . {for rear windows}
1/14	. . . with pivotal or rotary movement		
1/16	. . . slidable		
1/17	. . . . vertically		

- 1/2011 . . . {Blinds; curtains or screens reducing heat or light intensity (means against intense light blinding the driver or passengers [B60J 3/00](#))}
- 1/2013 . . . {Roller blinds (for roofs [B60J 7/0015](#); for luggage covering [B60R 5/047](#); for openings in buildings [E06B 9/40](#))}
- 1/2016 . . . . {Control means for actuating the roller blind, e.g. using electronic control}
- 1/2019 . . . . {powered, e.g. by electric, hydraulic or pneumatic actuators}
- 1/2022 . . . . . {with screw rods or extensible rods acting on the draw bar for pushing or push-pulling (pivoting arms [B60J 1/2055](#))}
- 1/2025 . . . . . {with flexible actuating elements connected to the draw bar for pulling only, e.g. cords, wires or cables}
- 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}
- 1/203 . . . . {Mechanism for actuation by hand, e.g. cranks or curtain cords}
- 1/2033 . . . . {characterised by the spring motor}
- 1/2036 . . . . {characterised by structural elements}
- 1/2038 . . . . . {Storage boxes}
- 1/2041 . . . . . {Blind sheets, e.g. shape of sheets, reinforcements in sheets, materials therefor}
- 1/2044 . . . . . {Draw bars, including elements attached to it, e.g. sliding shoes, gripping elements or pull cords}
- 1/2047 . . . . . {End position holding means, e.g. suction cups, hooks on a vehicle, indentations on guides}
- 1/205 . . . . . {Winding tubes, e.g. telescopic tubes or conically shaped tubes}
- 1/2052 . . . . . {Guides}
- 1/2055 . . . . . {Pivoting arms}
- 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}
- 1/2061 . . . . . {Tensioning systems for keeping the blind taut when in use, other than spring motors}
- 1/2063 . . . . {Mounting arrangements for roller blind or its storage box, e.g. integration into beltline or window frame}
- 1/2066 . . . . {Arrangement of blinds in vehicles}
- 1/2069 . . . . . {of multiple blinds, e.g. more than one blind per window or per actuation system}
- 1/2072 . . . . . {Blinds with inclined or vertical orientation of the winding axis}
- 1/2075 . . . . . {specially adapted for fixed windows}
- 1/2077 . . . . . {for windshields}
- 1/208 . . . . . {for rear windows}
- 1/2083 . . . . . {for side windows, e.g. quarter windows}
- 1/2086 . . . . . {specially adapted for openable windows, e.g. side window}
- 1/2088 . . . {Lamellar or like blinds}
- 1/2091 . . . {Foldable sunscreens ([B60J 1/2088](#) takes precedence)}
- 1/2094 . . . {Protective means for window, e.g. additional panel or foil, against vandalism, dirt, wear, shattered glass, etc.}
- 1/2097 . . . {means to prevent rattling of vehicle windows (anti-rattling means for vehicle doors [E05F 7/02](#))}
- 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](#))**
  - 3/002 . {External sun shield, e.g. awning or visor}
  - 3/005 . . {for side windows}
  - 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](#))}
  - 3/02 . adjustable in position {([B60J 3/002](#), [B60J 3/005](#) take precedence)}
  - 3/0204 . . {Sun visors}
  - 3/0208 . . . {combined with auxiliary visor}
  - 3/0213 . . . {characterised by the mounting means ([B60J 3/0208](#) takes precedence)}
  - 3/0217 . . . . {Brackets for mounting the sun visor support arm to the vehicle}
  - 3/0221 . . . . . {self mounting, i.e. no tools or screws required}
  - 3/0226 . . . . . {comprising a ball joint or at least two axes of rotation}
  - 3/023 . . . . {Additional support bracket releasably holding the sun visor}
  - 3/0234 . . . . {Mounted slidably}
  - 3/0239 . . . . . {and pivoting on a support arm (bearing members regulating the rotational friction on the support arm [B60J 3/0265](#))}
  - 3/0243 . . . . . {sliding out from ceiling}
  - 3/0247 . . . . {using a suction cup}
  - 3/0252 . . . . {Structure of the support arm}
  - 3/0256 . . . . . {telescopic}
  - 3/026 . . . . . {articulated, e.g. comprising pivot joints or lazy-tong structure}
  - 3/0265 . . . . {Attachments of sun visors to mounting means including details of sun visor bearing member regulating the rotational friction on the support arm}
  - 3/0269 . . . . . {in middle region of sun visor}
  - 3/0273 . . . . . {on both end regions of sun visor}
  - 3/0278 . . . {structure of the body ([B60J 3/0208](#), [B60J 3/0213](#) take precedence)}
  - 3/0282 . . . . {specially adapted for a courtesy mirror}
  - 3/0286 . . {Sunglare reduction by temporary translucent screens or foils removably attached to window}
  - 3/0291 . . {Preventing dazzlement during driving in the dark}
  - 3/0295 . . . {due to reflections in side or rear mirror}
  - 3/04 . adjustable in transparency
  - 3/06 . using polarising effect
- 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](#))}**
  - 5/02 . arranged at the vehicle front {(lids or bonnets [B62D 25/10](#))}

- 5/04 . . . . . {arranged at the vehicle sides ([panel mounted arm-rests B60N 2/78](#); [wall liners B60R 13/02](#); [door edge guards B60R 13/043](#); [padded linings associated with the side doors B60R 21/0428](#))}
- 5/0401 . . . . . {Upper door structure}
- 5/0402 . . . . . {window frame details, including sash guides and glass runs}
- 5/0404 . . . . . {Outside rear view mirror support}
- 5/0405 . . . . . {Inboard or outboard side of window frame formed integrally with the lower door structure}
- 5/0406 . . . . . {window frame formed separately as module}
- 5/0408 . . . . . {fastening window frame or parts of window frame to lower door structure}
- 5/0409 . . . . . {mechanism preventing outward displacement of window frame at high speeds ([ventilation valves B60H](#))}
- 5/0411 . . . . . {Beltline}
- 5/0412 . . . . . {Lower door structure}
- 5/0413 . . . . . {Inner panel, e.g. characterised by carrying components}
- 5/0415 . . . . . {Outer panel}
- 5/0416 . . . . . {Assembly panels to be installed in doors as a module with components, e.g. lock or window lifter, attached thereto}
- 5/0418 . . . . . {Water or sound barrier, e.g. watershields or seals between dry/wet compartment, sound or vibration dampers}
- 5/0419 . . . . . {Windows in lower door structures}
- 5/042 . . . . . {Reinforcement elements}
- 5/0422 . . . . . {Elongated type elements, e.g. beams, cables, belts or wires}
- 5/0423 . . . . . {characterised by position in the lower door structure}
- 5/0425 . . . . . {the elements being arranged essentially horizontal in the centre of the lower door structure ([B60J 5/0426](#) - [B60J 5/0448](#) take precedence)}
- 5/0426 . . . . . {the elements being arranged at the beltline}
- 5/0427 . . . . . {the elements being arranged along the lower edge of door}
- 5/0429 . . . . . {the elements being arranged diagonally}
- 5/043 . . . . . {the elements being arranged vertically}
- 5/0431 . . . . . {the elements being arranged at the hinge area}
- 5/0433 . . . . . {the elements being arranged at the lock area}
- 5/0434 . . . . . {the elements being arranged at the handle area}
- 5/0436 . . . . . {the elements being arranged at the mirror area}
- 5/0437 . . . . . {characterised by the attachment means to the door, e.g. releasable attachment means}
- 5/0438 . . . . . {characterised by the type of elongated elements}
- 5/044 . . . . . {the elements being flexible, e.g. belts, cables or wires}
- 5/0441 . . . . . {the elements having a grid-like structure, i.e. interconnected or interwoven elements}
- 5/0443 . . . . . {Beams}
- 5/0444 . . . . . {characterised by a special cross section}
- 5/0445 . . . . . {formed of several elements arranged in series}
- 5/0447 . . . . . {formed of several elements arranged in parallel}
- 5/0448 . . . . . {with branched structures}
- 5/045 . . . . . {Panel type elements ([B60J 5/0455](#) takes precedence)}
- 5/0451 . . . . . {Block or short strip-type elements ([beams B60J 5/0443](#), [position thereof B60J 5/0423](#))}
- 5/0452 . . . . . {including foams or expanded materials}
- 5/0454 . . . . . {being expanded onto door panel and forming a laminar structure with door panel, e.g. a rib}
- 5/0455 . . . . . {integrated in door structure or other door elements, e.g. beam-like shapes stamped in inner door panel}
- 5/0456 . . . . . {Behaviour during impact}
- 5/0458 . . . . . {Passive coupling of the reinforcement elements to the door or to the vehicle body}
- 5/0459 . . . . . {Active coupling of the reinforcement elements to the door or to the vehicle body, e.g. through releasing of pressurized gas}
- 5/0461 . . . . . {characterised by a pre-defined mode of deformation or displacement in order to absorb impact}
- 5/0462 . . . . . {the impact being a frontal impact}
- 5/0463 . . . . . {Conceptual assembling of door, i.e. how door frame parts should be fitted together to form door}
- 5/0465 . . . . . {using tailored blanks}
- 5/0466 . . . . . {using cast parts}
- 5/0468 . . . . . {Fixation or mounting means specific for door components ([fasteners in general F16B 21/00](#))}
- 5/0469 . . . . . {for door panels, e.g. hemming ([hemming equipment B21D 39/00](#))}
- 5/047 . . . . . {characterised by the opening or closing movement}
- 5/0472 . . . . . {the door having a hinge axis in horizontal direction transverse to vehicle longitudinal axis}
- 5/0473 . . . . . {the door having a hinge axis in the direction of the vehicle longitudinal axis}
- 2005/0475 . . . . . {due to absence of the B-pillar}
- 5/0476 . . . . . {convertible doors, e.g. window frame is stored in lower door structure}
- 5/0477 . . . . . {with two doors opening in opposite direction}
- 5/0479 . . . . . {without B-pillar or releasable B-pillar, i.e. the pillar is moving with door}
- 5/048 . . . . . {characterised by the material}
- 5/0481 . . . . . {plastic}
- 5/0483 . . . . . {lightweight metal, e.g. aluminum, magnesium}
- 5/0484 . . . . . {hybrid, i.e. plastic moulded onto metal parts}
- 5/0486 . . . . . {Special type}
- 5/0487 . . . . . {simplified doors related to cabins of, e.g. golf carts, tractors, jeeps, cranes, forklifts, etc.}
- 5/0488 . . . . . {rectangular of shape, e.g. as found in old fashioned cars and coaches}
- 5/049 . . . . . {caravan door}
- 5/0491 . . . . . {lid, e.g. for luggage compartment accessible at vehicle side ([B60J 5/0498](#) takes precedence)}
- 5/0493 . . . . . {Appurtenances}
- 5/0494 . . . . . {Rain covers deployed upon opening door}

- 5/0495 . . . {Finger guards (for doors in general [E06B 7/36](#), with sensors [E05F 15/42](#))}
- 5/0497 . . {for load transporting vehicles or public transport, e.g. lorries, trucks, buses}
- 5/0498 . . . {with rigid panels pivoting about a horizontal axis}
- 5/06 . . slidable; foldable
- 5/062 . . . {for utility vehicles or public transport ([B60J 5/08](#) takes precedence)}
- 5/065 . . . . {with non-rigid elements, e.g. side curtains ([B60J 7/062](#), [B60J 7/068](#) take precedence)}
- 5/067 . . . . . {vertically movable}
- 5/08 . . . of roller-blind type {made of rigid elements}
- 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](#))}
- 5/101 . . {for non-load transporting vehicles, i.e. family cars including vans}
- 5/102 . . . {comprising door or part of door being pivotable downwards about horizontal axis to open position}
- 5/103 . . . . {where lower door part moves independently from other door structures, e.g. by being hinged on the vehicle body}
- 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}
- 5/105 . . . {comprising door or part of door being pivotable about vertical axis}
- 5/106 . . . {comprising door or part of door being moveable by a linkage system to open/close position}
- 5/107 . . . {constructional details, e.g. about door frame, panels, materials used, reinforcements}
- 5/108 . . {for load transporting vehicles or public transport, e.g. lorries, trucks, buses}
- 5/12 . . slidable; foldable
- 5/125 . . . {for utility vehicles or public transport ([B60J 5/14](#) takes precedence)}
- 5/14 . . . of roller-blind type {made of rigid elements}
- 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](#))**
- 7/0007 . {moveable head-liners, screens, curtains or blinds for ceilings}
- 7/0015 . . {roller blind}
- 7/0023 . . {flexible and foldable}
- 7/003 . . {one or more sliding rigid plate or lammellae}
- 7/0038 . . . {stored in stacked fashion}
- 7/0046 . . {side blind between roof and panel in vent mode}
- 7/0053 . {Collapsible lateral roof side beams}
- 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}
- 7/0069 . . {where the beam itself is folded and moves inwardly, e.g. concertina type}
- 7/0076 . {separately collapsible C-pillars, e.g. by folding inwardly or sliding ([B60J 7/126](#) takes precedence)}
- 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](#))}
- 7/0092 . . {by inflating the roof (inflatable soft tops [B60J 7/1256](#))}
- 7/02 . of sliding type {, e.g. comprising guide shoes}
- 7/022 . . {Sliding roof trays or assemblies}
- 7/024 . . {characterised by the height regulating mechanism of the sliding panel ([B60J 7/043](#) - [B60J 7/053](#) take precedence)}
- 7/026 . . {with rigid non plate-like elements, e.g. for convertible vehicles}
- 7/028 . . . {the sliding movement being combined with a pivoting movement}
- 7/04 . . with rigid plate-like element or elements {, e.g. open roofs with harmonica-type folding rigid panels ([B60J 7/061](#) takes precedence)}
- 7/041 . . . {for utility vehicles, e.g. with slidable and foldable rigid panels}
- 7/042 . . . . {with a vertical lifting or folding movement (non-sliding roof panels movable for lifting [B60J 7/1614](#))}
- 7/043 . . . Sunroofs ([B60J 7/047](#) - [B60J 7/053](#) take precedence) {e.g. sliding above the roof}
- 7/0435 . . . . {pivoting upwardly to vent mode and moving at the outside of the roof to fully open mode}
- 7/047 . . . movable to overlapping or nested relationship {([B60J 7/041](#) takes precedence)}
- 7/05 . . . pivoting upwardly to vent mode and moving downward before sliding to fully open mode
- 7/053 . . . sliding with final closing motion having vertical component to attain closed and sealed condition {, e.g. sliding under the roof}
- 7/057 . . . Driving or actuating arrangements ([B60J 7/047](#) - [B60J 7/053](#) take precedence) {e.g. manually operated levers or knobs}
- 7/0573 . . . . {power driven arrangements, e.g. electrical}
- 7/0576 . . . . . {fluid}
- 7/06 . . with non-rigid element or elements
- 7/061 . . . {sliding and folding}
- 7/062 . . . . {for utility vehicles ([B60J 7/065](#) takes precedence)}
- 7/063 . . . . {for public transport ([B60J 7/066](#) takes precedence)}
- 7/064 . . . . {using folding arms sliding in longitudinal tracks for supporting the soft roof}
- 7/065 . . . . . {for utility vehicles}
- 7/066 . . . . . {for public transport}
- 7/067 . . . {sliding and winding up}
- 7/068 . . . . {for utility vehicles, e.g. of tarpaulin or roller-blind type}
- 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
- 7/085 . . {winding up, e.g. for utility vehicles}
- 7/10 . . readily detachable, e.g. tarpaulins with frames, or fastenings for tarpaulins (covering of loads on vehicles by tarpaulins [B60P 7/04](#))
- 7/102 . . . {Readily detachable tarpaulins, e.g. for utility vehicles; Frames therefor}
- 7/104 . . . . {Fastening means for tarpaulins}

- 7/106 . . . {readily detachable hard-tops ([storage compartment for collapsible flexible tops B60J 7/20](#))}
- 7/108 . . . . {Foldable rear hoods therefor}
- 7/11 . . . . Removable panels, e.g. sunroofs
- 7/12 . . foldable; Tensioning mechanisms therefor, e.g. struts ([B60J 7/10](#), [{B60J 7/20}](#) take precedence)
- 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}
- 7/1226 . . . {Soft tops for convertible vehicles}
- 7/123 . . . . {characterised by means for fastening the soft top cloth to the arches or vehicle body work}
- 7/1234 . . . . {characterised by arches, e.g. shape or material}
- 7/1239 . . . . . {Front bow}
- 7/1243 . . . . . {Intermediate bows}
- 7/1247 . . . . . {Tensioning bow at rear of soft top}
- 7/1252 . . . . . {characterised by lateral arches ([foldable side roof beams B60J 7/0053](#); linkage arms [B60J 7/1265](#))}
- 7/1256 . . . . . {Inflatable soft tops}
- 7/126 . . . . . {for landaulet-type vehicles, i.e. using a collapsible upper structure of the vehicle body}
- 7/1265 . . . . . {characterised by kinematic movements, e.g. using parallelogram linkages ([B60J 7/126](#) takes precedence)}
- 7/1269 . . . . . {with remote power control}
- 7/1273 . . . . . {using hydraulic means}
- 7/1278 . . . . . {the complete top rotating around a single main axis on the vehicle body ([B60J 7/1282](#) takes precedence)}
- 7/1282 . . . . . {foldable against a main arch before attaining fully open mode}
- 7/1286 . . . . . {including folding of the quarter windows}
- 7/1291 . . . {Soft tops for closed vehicle bodies}
- 7/1295 . . . {Temporary soft tops for seats outside passenger compartments, e.g. rumble seats, chauffeur seats}
- 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}
- 7/141 . . . . {for covering load areas, e.g. for pick-up trucks}
- 7/143 . . . . {for covering the passenger compartment}
- 7/145 . . . . . {at least two elements being folded in clamp-shell fashion}
- 7/146 . . . . . {all elements being folded in same orientation and stacked fashion}
- 7/148 . . . . . {at least one element being stored in vertical fashion}
- 7/16 . . non-foldable {and rigid, e.g. a one-piece hard-top or a single rigid roof panel} ([B60J 7/10](#) takes precedence)
- 7/1607 . . . {for covering load areas, e.g. rigid panels for pick-up truck beds}
- 7/1614 . . . . {with a vertical lifting movement maintaining the inclination of the roof or panel}
- 7/1621 . . . . {hinged on one side}
- 7/1628 . . . . {for covering the passenger compartment}
- 7/1635 . . . . . {of non-convertible vehicles}
- 7/1642 . . . . . {Roof panels, e.g. sunroofs or hatches, movable relative to the main roof structure, e.g. by lifting or pivoting}
- 7/165 . . . . . {at least a major part of the roof being lifted on all corners}
- 7/1657 . . . . . {at least a major part of the roof pivoting about a stationary axis}
- 7/1664 . . . . . {of convertible vehicles ([foldable rear hoods for readily detachable hard-tops B60J 7/108](#))}
- 7/1671 . . . . . {the roof pivoting about a stationary axis}
- 7/1678 . . . . . {the axis being horizontal}
- 7/1685 . . . . . {the axis being vertical}
- 7/1692 . . . . . {the roof being movable by a linkage system}
- 7/185 . Locking arrangements ([locks in general E05B](#))
- 7/1851 . . {for locking the foldable soft- or hard-top to the windshield header}
- 7/1853 . . . {locking mechanism arranged in windshield header}
- 7/1855 . . {for locking or immobilising roof elements when stored}
- 7/1856 . . {for interlocking the roof linkage system when deployed}
- 7/1858 . . {for locking soft tops to a surrounding rigid roof structure, e.g. to a closed vehicle body ([B60J 7/1291](#) takes precedence)}
- 7/19 . . for rigid panels {([B60J 7/1851](#) - [B60J 7/1856](#) take precedence)}
- 7/192 . . . {for locking the sunroof panel to the roof}
- 7/194 . . . {for locking detachable hard-tops or removable roof panels to the vehicle body}
- 7/196 . . . {for locking or interconnecting rigid roof panels to each other}
- 7/198 . . . {for locking tonneau covers such as covers for roof storage compartments or for pick-up truck beds}
- 7/20 . Vehicle storage compartments for roof parts {or for collapsible flexible tops}
- 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}
- 7/202 . . {being characterised by moveable cover parts for closing the gap between boot lid and rearmost seats}
- 7/203 . . . {the cover part comprising cover side flaps}
- 7/205 . . {where the boot lid opens in rearward direction to receive the roof and in forward direction to receive luggage}
- 7/206 . . {being arranged at the vehicle front}
- 7/207 . . {being adjustable in volume, i.e. collapsible in order to increase luggage space in boot when roof is not stored}
- 7/208 . . {with improved trunk access by moving the folded roof package when opening the trunk lid for loading or unloading luggage}
- 7/22 . Wind deflectors for open roofs
- 7/223 . . {specially adapted for convertible cars}
- 7/226 . . {immovably attached to vehicle roof section}
- 9/00** **Devices not provided for in one of main groups**  
[B60J 1/00](#) - [B60J 7/00](#) ([B60J 10/00](#) takes precedence)

- 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](#))}
- 9/04 . Air curtains (in general [F24F](#))
- 10/00 Sealing arrangements**
- 10/15 . characterised by the material
- 10/16 . . consisting of two or more plastic materials having different physical or chemical properties ([B60J 10/17](#) takes precedence)
- 10/17 . . provided with a low-friction material on the surface
- 10/18 . . provided with reinforcements or inserts
- 10/20 . characterised by the shape
- 10/21 . . having corner parts or bends
- 10/22 . . having varying cross-section in the longitudinal direction
- 10/23 . . assembled from two or more parts ([B60J 10/21](#) takes precedence)
- 10/233 . . . {Modular sealing arrangements, i.e. arrangements built up from a large number of joined modules}
- 10/2335 . . . . {with joint end members, e.g. abutting ends}
- 10/235 . . . the parts being joined along their longitudinal direction
- 10/24 . . having tubular parts
- 10/242 . . . with vent holes
- 10/244 . . . inflatable or deflatable
- 10/246 . . . having projections, e.g. ribs, within the tubular parts
- 10/248 . . . having two or more tubular cavities, e.g. formed by partition walls
- 10/25 . . characterised by water drainage means
- 10/26 . . characterised by the surface shape
- 10/265 . . . the surface being primarily decorative
- 10/27 . . having projections, grooves or channels in the longitudinal direction (for separately inserted fastening means, e.g. beads or strips, [B60J 10/36](#))
- 10/273 . . . for enclosing or housing devices for purposes other than sealing, e.g. cables
- 10/277 . . . for facilitating specific deformation of sealing parts, e.g. for ensuring proper folding
- 10/30 . characterised by the fastening means
- 10/32 . . using integral U-shaped retainers
- 10/33 . . . characterised by the configuration of the retaining lips
- 10/34 . . using adhesives
- 10/345 . . . {with formless adhesives, e.g. hot melt}
- 10/35 . . . using adhesive tapes, e.g. double-sided tapes
- 10/36 . . using separately inserted fastening means, e.g. using clips, beads or strips
- 10/365 . . . {comprising beads}
- 10/38 . . using magnetic means
- 10/40 . characterised by contact between two or more cooperating sealing arrangements
- 10/45 . {Assembling sealing arrangements with vehicle parts}
- 10/50 . characterised by means for prevention or reduction of noise, e.g. of rattling or vibration of windows
- 10/60 . characterised by defrosting arrangements
- 10/70 . specially adapted for windows or windscreens
- 10/72 . . with integral wind-deflecting means, e.g. for preventing soiling
- 10/74 . . for sliding window panes, e.g. sash guides
- 10/75 . . . for sealing the lower part of the panes
- 10/76 . . . for window sashes; for glass run channels
- 10/763 . . . . for preventing outward displacement of windows when at high speed
- 10/767 . . . . for reducing air resistance due to the panes not being flush with the sash guide or glass run channel
- 10/77 . . . for sashless windows, i.e. for frameless windows forming a seal directly with the vehicle body
- 10/773 . . . . for preventing outward displacement of windows when at high speed
- 10/777 . . . . the sealing arrangement being between the edges of adjacent panes
- 10/7775 . . . . . {mounted on the pillar}
- 10/78 . . . adjacent to corner pieces, mirror supports or quarter windows
- 10/79 . . . for flush-glass windows, i.e. for windows flush with the vehicle body or the window frame
- 10/80 . specially adapted for opening panels, e.g. doors (for non-fixed roofs [B60J 10/90](#))
- 10/82 . . for movable panels in roofs
- 10/84 . . arranged on the vehicle body
- 10/85 . . . {with additional seals on the body side}
- 10/86 . . arranged on the opening panel
- 10/87 . . . {with additional seals on the panel side}
- 10/88 . . . mounted on, or integral with, the glass-run seals
- 10/90 . specially adapted for non-fixed roofs, e.g. foldable roofs or removable hard-tops
- 11/00 Removable external protective coverings specially adapted for vehicles or parts of vehicles, e.g. parking covers (covering of load on vehicles [B60P 7/00](#); guard strips for body finishing, identifying or decorating [B60R 13/04](#); tents for use as garages [E04H 15/00](#))**
- NOTE**
- In groups [B60J 11/02](#) - [B60J 11/10](#), the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place. {This Note corresponds to IPC Note (1) relating to [B60J 11/02](#) - [B60J 11/06](#).}
- 11/02 . Covers wound on rollers
- 11/025 . . {specially adapted for covering vehicle parts, e.g. for doors, windows or windscreens}
- 11/04 . for covering at least the roof of the vehicle, e.g. for covering the whole vehicle
- 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](#))
- 11/08 . . for windows or windscreens (antiglare equipment [B60J 3/00](#))
- 11/10 . . for wheels (hub caps or the like [B60B 7/00](#); external spare wheel stowing, holding or mounting arrangements [B62D 43/02](#))