B60J  WINDOWS, WINDSCREENS, NON-FIXED ROOFS, DOORS, OR SIMILAR DEVICES FOR VEHICLES; REMOVABLE EXTERNAL PROTECTIVE COVERINGS SPECIALLY ADAPTED FOR VEHICLES  

**NOTES**

1. 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.

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.

1/00  Windows; Windscreens; Accessories therefor  

\[(B60J 10/00 \text{ takes precedence; air curtains instead of windows } B60J 9/04 \{; sealing strips for windshields } B60J 10/70\text{; sealing sash guides for sliding window panes } B60J 10/74\text{;} glass partitions inside vehicles to protect occupants against personal attack } B60R 21/12)\]

1/001  .  [Double glazing for vehicles]

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)]

1/003  .  [Rear seat windscreens]

1/004  .  [Mounting of windows]

1/005  .  .  [using positioning means during mounting]

1/006  .  .  [characterised by fixation means such as clips, adhesive, etc. (incorporated in seal B60J 10/70)]

1/007  .  .  [received in frames to be attached to vehicle]

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.]

1/02  .  arranged at the vehicle front [e.g. structure of the glazing, mounting of the glazing (on windscreen mounted antenna wire H01Q 1/127)]

1/025  .  .  [Temporary windscreens]

1/04  .  .  adjustable

1/06  .  .  .  comprising more than one pane

1/08  .  arranged at vehicle sides

1/085  .  .  .  [removably mounted]

1/10  .  .  .  fixedly mounted ([B60J 1/085 \text{ takes precedence}])

1/12  .  .  .  adjustable

1/14  .  .  .  with pivotal or rotary movement

1/16  .  .  .  slidable

1/17  .  .  .  vertically

1/18  .  .  arranged at the vehicle rear \{optical viewing arrangements integrated in rear windows, e.g. Fresnel lenses B60R 1/001\}

1/1807  .  .  .  movable for vehicles with convertible top

1/1815  .  .  .  [non-adjustably mounted in and moving with the soft-top cover]

1/1823  .  .  .  [adjustable relative to hard- or soft-top, e.g. pivotal]

1/183  .  .  .  [slidable]

1/1838  .  .  [movable for non-convertible vehicles, including vehicles with versatile load area]

1/1846  .  .  [where the window can slide]

1/1853  .  .  [horizontally in direction transverse to vehicle longitudinal axis]

1/1861  .  .  [vertically, e.g. into lower part of rear door before opening rear door]

1/1869  .  .  [to an end position parallel to roof]

1/1876  .  .  [where the window is pivotable relative to a stationary axis]

1/1884  .  .  [about a horizontal axis]

1/1892  .  .  [where the window is translated by a linkage system]

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)

1/2002  .  .  .  [Wind deflectors specially adapted for preventing soiling, e.g. for side windows (integral with sealing arrangements B60J 10/72)]

1/2005  .  .  .  [for windscreens]

1/2008  .  .  .  [for rear windows]
Antiglare equipment associated with windows or windscreen (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)}
3/024
{Sun visors}
3/028
{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 3/00 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 armrests B60N 278; 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]
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 . [. moveable 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 7/220)]
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 7/220) 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 the soft top to the main 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 takes 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)
Sealing arrangements

10/00

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)