**E06B**

**FIXED OR MOBILE CLOSURES FOR OPENINGS IN BUILDINGS, VEHICLES, FENCES, OR LIKE ENCLOSURES, IN GENERAL, E.G. DOORS, WINDOWS, BLINDS, GATES**

**ELEMENTS FOR CLOSING OPENINGS** ........................................3/00, 5/00

**BORDER CONSTRUCTIONS** ................................................... 1/00

**NOTES**

1. This subclass does not cover combinations of wings or frames with operating, mounting, latching or locking means of the type found in class E05, which are covered by the relevant subclasses of class E05, except such as are covered by groups E06B 7/086, E06B 9/00, or E06B 11/02 of this subclass. [2]

2. In this subclass, the following terms or expressions are used with the meanings indicated:
   - “wing” means a swingable, slidable or otherwise movable member such as a door or window, for closing an opening;
   - “wing frame” means the peripheral edge or edges which define the outer border of the wing.

3. For vehicle door or window arrangements, attention is drawn to Note (1) following the title of subclass B60J. [3]

**SUBCLASS INDEX**

| 1/00 | Border constructions of openings in walls, floors, or ceilings; Frames to be rigidly mounted in such openings (E06B 5/00 takes precedence; features relating also to inner frames or wing frames, features relating solely to the mounting of inner frames E06B 3/00; corner joints or edge joints E06B 3/96) [4] |
| 1/02 | . Base frames, i.e. template frames for openings in walls or the like, provided with means for securing a further rigidly-mounted frame; Special adaptations of frames to be fixed therein |
| 1/04 | . Frames for doors, windows, or the like to be fixed in openings (special adaptations for fixing in base frames E06B 1/02; features relating solely to the mounting of glass panes or other sheets E06B 3/00) |
| 1/06 | . Wooden frames |
| 1/08 | . composed of several parts with respect to the cross-section of the frame itself |
| 1/10 | . . adjustable with respect to the thickness of walls |
| 1/12 | . Metal frames |
| 1/14 | . . of special cross-section (E06B 1/18, E06B 1/22 take precedence) |
| 1/16 | . Hollow frames |
| 1/18 | . . composed of several parts with respect to the cross-section of the frame itself |
| 1/20 | . . adjustable with respect to the thickness of walls |
| 1/22 | . . with integral thresholds of special form |
| 1/24 | . Frames of natural stone, concrete, or other stone-like material |
| 1/26 | . Frames of plastics |
| 1/28 | . Hollow frames (E06B 1/30 takes precedence) |
| 1/30 | . . composed of several parts with respect to the cross-section of the frame itself |
| 1/32 | . Frames composed of parts made of different materials |
| 1/34 | . Coverings, e.g. protecting against weather, for decorative purposes |
| 1/36 | . Frames uniquely adapted for windows |
| 1/38 | . for shop-, show- or like large windows |
| 1/40 | . Frames with parts removable to admit the glass (E06B 1/38 takes precedence) |

| 1/52 | . Frames specially adapted for doors |
| 1/56 | . Fastening frames to the border of openings |
| 1/58 | . . by filling-up the joints, e.g. by cementing |
| 1/60 | . . by mechanical means, e.g. anchoring means |
| 1/62 | . . Tightening or covering joints between the border of openings and the frame (E06B 1/34 takes precedence) |
| 1/64 | . . by loosely-inserted means, e.g. strip, resilient tongue |
| 1/66 | . . by labyrinth packings |
| 1/68 | . . by profiled external parts |
| 1/70 | . Sills; Thresholds |

| 3/00 | Window sashes, door leaves, or like elements for closing openings; Layout of fixed or moving closures, e.g. windows; Features of rigidly-mounted outer frames relating to the mounting of wing frames (E06B 5/00 takes precedence; shutters or the like E06B 9/00; glass panes C03; uniting glass sheets by fusion C03B 23/203; joining glass to glass other than by fusing or to other inorganic material C03C 27/00) |
| 3/01 | . Removable or disappearing walls for hangars or other halls, e.g. for aircraft (wall constructions E04B 2/00) |
| 3/02 | . Wings made completely of glass |
| 3/04 | . Wing frames not characterised by the manner of movement (features relating to the manner of movement E06B 3/32) |
| 3/06 | . . Single frames |
| 3/08 | . . . Constructions depending on the use of specified materials (E06B 3/24 takes precedence) |
| 3/10 | . . . of wood |
| 3/12 | . . . of metal |
| 3/14 | . . . of special cross-section |
| 3/16 | . . . . . . . Hollow frames |
| 3/18 | . . . of concrete or other stone-like material |
| 3/20 | . . . of plastics |
| 3/22 | . . . Hollow frames |
| 3/24 | . . . specially adapted for double glazing (separable parts for securing panes E06B 3/64) |
| 3/26 | . . Compound frames, i.e. one frame within or behind another (E06B 3/263, E06B 3/28 take precedence; arrangements of movable frames E06B 3/32) |
Arrangements of wings characterised by the manner of movement; Arrangements of movable wings in openings; Features of wings or frames relating solely to the manner of movement of the wing [3]

With only one kind of movement (E06B 3/48 takes precedence)

With a single vertical axis of rotation at one side of the opening, or swinging through the opening (wings requiring lifting before opening E06B 3/52)

With a horizontal axis of rotation at the top or bottom of the opening

With a vertical or horizontal axis of rotation not at one side of the opening, e.g. turnover wings

Sliding wings; Details of frames with respect to guiding

Vertically-sliding wings

Horizontally-sliding wings

Wings connected at their edges, e.g. foldable wings

With more than one kind of movement (E06B 3/48 takes precedence)

Wings requiring lifting before opening

Fixing of glass panes or like plates

By means of putty, cement, or adhesives only (E06B 3/64 takes precedence)

By means of borders, cleats, or the like (E06B 3/64 takes precedence)

Of clamping cleats of metal

Of rubber-like elastic cleats

Fixing of more than one pane to a frame

Units comprising two or more parallel glass or like panes in spaced relationship, the panes being permanently secured together, e.g. along the edges (layered products essentially comprising sheet glass B32B 17/00; coating of glass C03C 17/00)

Elements for spacing panes [6]

Connectors therefor [6]

Characterised by additional arrangements or devices for heat or sound insulation [6]

Assembling the units (E06B 3/677 takes precedence) [6]

Evacuating or filling the gap between the panes; Preventing condensation in the gap between the panes (by means of spacing elements E06B 3/663); Cleaning the gap between the panes [6]

Window bars

Door leaves (wing frames E06B 3/04)

Consisting of frame and panels

With wooden panels

With metal panels

With panels of plastics

Flexible

Flush doors, i.e. with completely flat surface (E06B 3/02 takes precedence)

of plywood

of plastics

Edge-protecting devices for door leaves (finger guards for doors or windows E06B 7/36)

Revolving doors; Cages or housings therefor (turnstiles E06B 11/08)

Doors or windows extensible when set in position (sliding wings for windows E06B 3/42; foldable wings E06B 3/48; wall-closing devices which may be rolled up, e.g. shutters, E06B 9/08)

Doors of the bellows type

Corner joints or edge joints for windows, doors, or the like frames or wings [4]

Using separate connecting pieces, e.g. T-connecting pieces (E06B 3/984, E06B 3/988, E06B 3/99 take precedence) [5]

Characterised by the way the connecting pieces are fixed in or on the frame members [5]

by increasing the cross-section of the connecting pieces, e.g. by expanding the connecting pieces with wedges (E06B 3/976 takes precedence) [5]

by deformation of the frame members [5]

the connecting pieces being specially adapted for drawing the frame members towards each other (E06B 3/972, E06B 3/976 take precedence) [5]

specially adapted for frame members of wood or other material worked in a similar way (E06B 3/99 takes precedence) [5]

specially adapted for frame members of sheet metal, or similar sheet material, with an open generally U-shaped cross-section, e.g. for door frame members [5]

for continuous frame members crossing each other without interruption (window bars E06B 3/68) [5]

Doors, windows, or like closures for special purposes; Border constructions therefor

Trap-doors

for out-buildings or cellars; Other simple closures not designed to be close-fitting

with fixed wooden frames

with fixed metal frames

with fixed frames made of concrete, stone-like material, or plastics

for protection against air-raid or other war-like action; for other protective purposes

against burglary [6]

against air pressure, explosion, or gas

Gasproof doors or similar closures; Adaptation of fixed constructions therefor

Fireproof doors or similar closures; Adaptations of fixed constructions therefor

against harmful radiation (against heat E06B 5/16)

for insulation against noise

Special arrangements or measures in connection with doors or windows (screening or similar protective devices E06B 9/00)

for providing ventilation, e.g. through double windows; Arrangement of ventilation roses (airflow control members per se F24F 13/08)

Ventilating devices for inserting under upwardly-sliding windows (rain or draught deflectors E06B 7/26)
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7/04 . . . with ventilation wings (E06B 7/08 takes precedence)
7/06 . . . . with one ventilation wing only
7/08 . . . Louvre doors, windows, or grilles
7/082 . . . with rigid or slideable lamellae
7/084 . . . with rotatable lamellae
7/086 . . . . interconnected for concurrent movement [2]
7/088 . . . . with facing protective grille or safety guard [2]
7/09 . . . . . mounted in movable wing, e.g. door [2]
7/092 . . . . . operable in two or more distinct sets [2]
7/094 . . . . . operable in sequence; characterised by additional independent movement [2]
7/096 . . . . . operated or interconnected by gearing (wing operators with gearing in general E05F 11/00) [2]
7/098 . . . . with weather seal [2]
7/10 . . . . by special construction of the frame members
7/12 . Measures preventing the formation of condensed water (double glazing E06B 3/24 to E06B 3/28, E06B 3/64, E06B 3/66; heating arrangements specially adapted for transparent or reflecting areas H05B 3/84)
7/14 . Measures for draining-off condensed water or water leaking-in
7/16 . Sealing arrangements on wings or parts co-operating with the wings (E06B 7/098 takes precedence) [2]
7/18 . . by means of movable edgings, e.g. draught sealings additionally used for bolting
7/20 . . automatically withdrawn when the wing is opened
7/205 . . . with sealing strip mounted on sill [2]
7/215 . . . with sealing strip being moved to a retracted position by elastic means, e.g. springs [2]
7/22 . . by means of elastic edgings, e.g. elastic rubber tubes; by means of resilient edgings, e.g. felt or plush strips, resilient metal strips (E06B 7/18 takes precedence)
7/23 . Plastic, sponge rubber, or like strips or tubes
7/232 . . . Resilient strips of hard material, e.g. metal
7/24 . . without separate sealing members, e.g. with labyrinth
7/26 . Rain or draught deflectors, e.g. under sliding wings
7/28 . . . Other arrangements on doors or windows, e.g. doorplates, windows adapted to carry plants, hooks for window cleaners
7/30 . . Peep-holes; Devices for speaking through; Doors having windows
7/32 . . Serving doors; Passing-through doors
7/34 . . Doors containing cupboards (cabinets in general A47B)

9/00 Screening or protective devices for openings, with or without operating or securing mechanisms. Closures of similar construction (E06B 5/10 takes precedence; wings for doors or windows, connected at their edges, E06B 3/48; additional indoor equipment of doors or windows, not forming part of the proper finishing work of a building, e.g. curtains, A47H; gratings as building elements E04C 2/42; locks, accessories therefor E05B; bolts or fastening devices for wings E05C; operating mechanism for wings in general E05F)
9/01 . . . Grilles fixed to walls, doors, or windows; Grilles moving with doors or windows; Walls formed as grilles, e.g. clausstra
9/02 . Shutters, movable grilles, or other safety closing devices, e.g. against burglary (louvre windows or grilles E06B 7/08; lamellar blinds E06B 9/26)
9/04 . . . . of wing type, e.g. revolving or sliding
9/06 . . . collapsible or foldable, e.g. of the bellows or lazy-tongs type (bellows-type doors E06B 3/94; roll-type grilles E06B 9/18)
9/08 . . . Roll-type closures (roller blinds E06B 9/40; operating, guiding or securing devices or arrangements for roll-type closures E06B 9/56; usable only as awnings E04F 10/06) [5]
9/13 . . . . with closing members of one piece, e.g. of corrugated sheet metal [5]
9/15 . . . . with closing members formed of slats or the like [5]
9/165 . . . . . with slats disappearing in each other; with slats the distance between which can be altered [5]
9/17 . . . . Parts or details of roller shutters, e.g. suspension devices, shutter boxes, wicket doors, ventilation openings [5]
9/171 . . . . . Rollers therefor; Fastening roller shutters to rollers [5]
9/172 . . . . . by clamping bars
9/173 . . . . . by clasps or buttons
9/24 . . . Screens or other constructions affording protection against light, especially against sunshine; Similar screens for privacy or appearance (operating, guiding or securing devices or arrangements for roll-type closures E06B 9/56; free-hanging flexible screens A47H 23/00)
9/26 . . . Lamellar or like blinds, e.g. venetian blinds
9/262 . . . . with flexibly-interconnected horizontal or vertical strips; Concertina blinds
9/264 . . . . . Combinations of lamellar blinds with roller shutters, screen windows, windows, or double panes; Lamellar blinds with special devices
9/266 . . . . . Devices or accessories for making or mounting lamellar blinds or parts thereof [3]
9/27 . . . . . . with horizontal lamellae, e.g. non-liftable (louvre windows or gratings E06B 7/08)
9/28 . . . . . . liftable
9/30 . . . . . . liftable
9/302 . . . . . . without ladder-tape, e.g. with lazy-tongs, with screw spindle
9/303 . . . . . . with ladder-tape
9/304 . . . . . . with tilting bar and separate raising shaft
9/305 . . . . . . with tilting bar and raising cords guided along fixed bar
9/306 . . . . . . with tilting bar along which the raising cords are guided

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LADDERS (E04F 11/00 takes precedence; step-stools A47C 12/00; adaptation of ladders to use on ships B63B, to use on aircraft B64; scaffolding E04G) [5,6]

1/00 Ladders in general (mounted on undercarriages or vehicles E06C 5/00; permanently attached to fixed structures E06C 9/00) [5]
1/02 with rigid longitudinal member or members [5]
1/04 Ladders for resting against objects, e.g. walls, poles, trees (supports for ladder heads E06C 7/48) [5]
1/06 in one piece [5]
1/08 multi-part [5]
1/10 Sections fitted end to end [5]
1/12 extensible, e.g. telescopic [5]
1/14 Ladders capable of standing by themselves [5]

1/16 with struts which rest on the ground (with struts rigid with the ladder E06C 1/24; having platforms E06C 1/39) [5]
1/18 with supporting struts formed as ladders [5]
1/20 with supporting struts formed as poles [5]
1/22 with extensible, e.g. telescopic, ladder parts or struts [5]
1/24 Free-standing ladders [5]
1/26 in one piece [5]
1/28 multi-part (with movable supporting struts formed as ladders E06C 1/18) [5]
1/30 extensible, e.g. telescopic [5]
Ladders characterised by being mounted on undercarriages or vehicles (ladders having wheels, rollers, or runners)

- 5/00
  - 5/02 with rigid longitudinal members
  - 5/04 capable of being elevated or extended
  - 5/06 by piston and cylinder, or equivalent means, operated by a pressure medium
  - 5/08 derived directly from a pressure reservoir
  - 5/10 charged by a pump or compressor driven by the motor of the vehicle or another motor on the vehicle
  - 5/12 derived directly from a pump or compressor driven by the motor of the vehicle or another motor on the vehicle
  - 5/16 using mechanical transmission only, with or without fluid or other non-mechanical couplings or clutches
  - 5/18 using power from the motor of the vehicle or another motor
  - 5/20 using hand-power (hand-operated extending means carried by the ladder E06C 7/04)
  - 5/22 by, or with the assistance of, springs (E06C 5/06, E06C 5/16 take precedence)
  - 5/24 Dismounting ladders from vehicles
  - 5/26 with non-rigid longitudinal members
  - 5/28 of the lazy-tongs type

Ladders having platforms foldable with the ladder

- 1/397 characterised by having wheels, rollers, or runners
- 1/52 with non-rigid longitudinal members
- 1/54 of the lazy-tongs type
- 1/56 Rope or chain ladders
- 1/58 with both rigid and non-rigid longitudinal members

Other accessories on ladders, e.g. acoustical signalling devices, dismountable switchboards

Component parts, supporting parts, or accessories

- 7/02 Extending means (for ladders mounted on undercarriages or vehicles E06C 5/00)
- 7/04 Hand-operated extending means carried by the ladder
- 7/06 Securing devices or hooks for parts of extensible ladders
- 7/08 Special construction of longitudinal members, or rungs or other treads
- 7/10 Reinforcements for ladders
- 7/12 Lifts or other hoisting devices on ladders
- 7/14 Holders for pails or other equipment on or for ladders
- 7/16 Platforms on, or for use on, ladders, e.g. liftable or lowerable platforms (aspects relating to the lifting B66F)
- 7/18 Devices for preventing persons from falling (life-saving belts A62B 1/16)
- 7/42 Ladder feet; Supports therefor (for scaffold elements E04G 5/02)
- 7/44 Means for mounting ladders on uneven ground
- 7/46 Non-slip equipment
- 7/48 Ladder heads; Supports for heads of ladders for resting against objects
- 7/50 Joints or other connecting parts

Ladders characterised by being permanently attached to fixed structures, e.g. fire escapes (movable stairways E04F 11/04)

- 9/02 rigidly mounted
- 9/04 in the form of climbing irons or the like
- 9/06 movably mounted
- 9/08 with rigid longitudinal members
- 9/10 forming part of a building, such as a balcony grid, window grid, or other window part
- 9/12 laterally displaceable
- 9/14 with non-rigid longitudinal members, e.g. rope or chain ladders, ladders of the lazy-tongs type