COOPERATIVE PATENT CLASSIFICATION

E FIXED CONSTRUCTIONS

BUILDING

E06 DOORS, WINDOWS, SHUTTERS, OR ROLLER BLINDS IN GENERAL; LADDERS

E06B FIXED OR MOVABLE CLOSURES FOR OPENINGS IN BUILDINGS, VEHICLES, FENCES OR LIKE ENCLOSURES IN GENERAL, e.g. DOORS, WINDOWS, BLINDS, GATES (shades or blinds for greenhouses A01G 9/22; curtains A47H; lids for car boots or bonnets B62D 25/10; skylights E04B 7/18; sunshades, awnings E04F 10/00)

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. 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.

WARNINGS
1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   E06B 11/06 covered by E05B 65/0007
2. 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.
Frames specially adapted for doors

[for overhead garage doors]

[Millions; Transoms]

[for door wings that can be set up to open either left or right, outwards or inwards, e.g. provided with grooves for easily detachable hinges or latch plates (locks therefor E05B 63/04; hinges therefor E05D 7/02)]

[with ducts for cables or pipes]

Fastening frames to the border of openings {or to similar contiguous frames (E06B 1/003 takes precedence)}

by filling up the joints, e.g. by cementing

by mechanical means, e.g. anchoring means

between similar contiguous frames (bay windows E06B 1/363)

Anchoring means (E06B 1/6007, E06B 1/6046 - E06B 1/6092 take precedence)

completely hidden between the frame and the border of the opening, at least part of the means being previously fixed to the wall (E06B 1/6038 takes precedence)

[adjustable]

between similar contiguous frames (E06B 1/363)

Clamping means acting perpendicular to the wall opening; Fastening frames by tightening or drawing them against a surface parallel to the opening (E06B 1/6007 takes precedence)

the frame being moved perpendicularly towards the opening and held by means of snap action behind a protrusion on the border of the opening

with separate clamping means acting on opposite wall or associated surfaces

[Separate spacer means acting exclusively in the plane of the opening; Shims; Wedges; Tightening of a complete frame inside a wall opening (E06B 1/6038 takes precedence)]

of screw-type

[Mounting frames elastically, e.g. with springs or other elastic material, between the wall and the frame (E06B 1/6046 takes precedence)]

[Fastening door frames to the floor or ceiling; Jamb feet; Cross members uniting the jamb feet (E06B 1/70 and E06B 3/9632 take precedence)]

[especially adapted for door frames; Joint covering devices where the wall surface is parallel to the adjacent door or window frame part]

[with parts to be embedded in the stucco layer or otherwise linked to this layer]

[comprising expanding foam strips]

[Separate flexible joint covering strips; Flashings]

by loosely-inserted means, e.g. strip, resilient tongue

by labyrinth packings

by profiled external parts

Sills; Thresholds

Window sashes, door leaves, or like elements for closing (wall or like) openings; Layout of fixed or moving closures, e.g. windows [in wall or like openings]; 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)

Removable or disappearing walls for hangars or other halls, e.g. for aircraft (wall constructions E04B 2/00)

Wings made completely of glass (E06B 3/4681 takes precedence)

[consisting of multiple glazing units (units per se E06B 3/66)]

Wing frames not characterised by the manner of movement (features relating to the manner of movement E06B 3/32)

Single frames

Constructions depending on the use of specified materials (E06B 3/24 takes precedence)

of wood

(reinforced)

of metal

of special cross-section (not used, see subgroup and E06B 3/12)

Hollow frames [of special construction, e.g. made of folded sheet metal or of two or more section parts connected together]

with a filled cavity

with a filled cavity

of concrete or other stone-like material

of plastics

[moulded or extruded around a core]

Hollow frames (E06B 3/205 takes precedence)

with the frame member having local reinforcements in some parts of its cross-section or with a filled cavity

[with internal prefabricated reinforcing section members inserted after manufacturing of the hollow frame]

the hollow frame members comprising several U-shaped parts assembled around a reinforcing core member

with reinforcing plastic section members

Means for stabilising the insert

by adhesives or filling up the remainder of the cavity, e.g. together with foam

with reinforcing wooden section members

[with separate reinforcements situated outside the cavity or in the walls]

specially adapted for double glazing (separable parts for securing panes E06B 3/64)
Frames with special provision for insulation

3/263 . . . Compound frames, i.e. one frame within or behind another; \( \text{E06B 3/28 takes precedence; arrangements of movable frames E06B 3/32} \)

3/2605 . . . [with frames permanently mounted behind or within each other, each provided with a pane or screen]

2003/261 . . . [Frames made of wood]
2003/2615 . . . [Frames made of metal]
2003/262 . . . [Frames made of plastic material]
2003/2625 . . . [with different frames made from different materials]

3/263 . . . Frames with special provision for insulation
3/26301 . . . [with prefabricated insulating strips between two metal section members (with two metal frame members having interpenetrating or overlapping parts when mounted \( \text{E06B 3/26336; combined with insulating elements formed in situ E06B 3/2673} \))

3/26303 . . . [with thin strips, e.g. defining a hollow space between the metal section members]
3/26305 . . . [Connection details (deformation of portions of the metal frame members \( \text{E06B 3/273; expansion of the extremities of the insulating elements E06B 3/277} \))

3/26307 . . . [Insulating strips and metal section members both having L-shaped ribs, the engagement being made by a movement transversal to the plane of the strips]

2003/26309 . . . [using glue]
2003/2631 . . . [Screw or pin connections]
2003/26312 . . . [Snap connections]
2003/26314 . . . [Provisions for reducing the shift between the strips and the metal section members]
2003/26316 . . . [Disconnectable connections or permitting shifting between the sections]
2003/26318 . . . [Connecting by rotating the metal section or the strip around its longitudinal axis]

3/2632 . . . [with arrangements reducing the heat transmission, other than an interruption in a metal section]
3/26321 . . . [with additional prefab insulating materials in the hollow space]
3/26323 . . . [with coatings reducing the radiation]
3/26325 . . . [the convection or radiation in a hollow space being reduced, e.g. by subdividing the hollow space]

3/26327 . . . [with separate thin walled inserts]
3/26329 . . . [the insulating strips between the metal sections being interconnected]
3/2633 . . . [the insulating strips between the metal sections having ribs extending into the hollow space]

3/26332 . . . [Arrangements reducing the heat transfer in the glazing rabbit or the space between the wing and the casing frame]
3/26334 . . . [Contact reducing arrangements between the insulating strips and the metal sections]

3/2636 . . . [with two metal frame members having interpenetrating or overlapping parts when mounted (involving sheet metal section members \( \text{E06B 3/2735} \))]
3/2638 . . . [comprising short insulating elements disposed at intervals]

3/2634 . . . [without separate insulating elements, e.g. the heat transmission being reduced by a smaller cross-section]
3/26341 . . . [comprising only one metal frame member combined with an insulating frame member]
3/26343 . . . [with two or more separate insulating zones alternating with metal section members]
3/26345 . . . [for wooden or plastic section members]
3/26347 . . . [specially adapted for sliding doors or windows]

2003/26349 . . . [Details of insulating strips]
2003/2635 . . . [Specific form characteristics]
2003/26352 . . . [hollow]
2003/26354 . . . [filled]
2003/26356 . . . [Honeycomb]
2003/26358 . . . [stepped or undulated]
2003/26359 . . . [making flush mounting with neighbouring metal section members possible]

2003/26361 . . . [Openings, incisions or indents]
2003/26363 . . . [Screw channels]
2003/26365 . . . [Composed of several similar parts positioned one after the other]
2003/26367 . . . [making flush mounting with neighbouring metal section members possible]
2003/26369 . . . [Specific material characteristics]
2003/2637 . . . [reinforced]
2003/26372 . . . [with coatings]
2003/26374 . . . [with parts of differing nature]
2003/26376 . . . [Non-plastic materials, e.g. wood, metal]
2003/26378 . . . [comprising foam]
2003/26379 . . . [Specific characteristics concerning the disposition between the metal section members]

2003/26381 . . . [disposed obliquely]
2003/26383 . . . [with two similar parallel strips, one shifted to one side]
2003/26385 . . . [with strips disposed perpendicular to each other]
2003/26387 . . . [Performing extra functions]
2003/26389 . . . [Holding sealing strips or forming sealing abutments]
2003/2639 . . . [Provisions for fittings, e.g. locks or hinges]
2003/26392 . . . [Glazing bars]
2003/26394 . . . [Strengthening arrangements in case of fire]
2003/26396 . . . [specially adapted for sheet metal frames]
2003/26398 . . . [with two metal sections clamping a pane]

3/267 . . . [with insulating elements formed in situ]
3/2675 . . . [combined with prefabricated insulating elements]

3/273 . . . [with prefabricated insulating elements held in position by deformation of portions of the \( \text{metal} \) frame members]
3/2735 . . . [comprising a sheet metal member, an edge or which is bent over the edge of the other metal member with interposition of an insulating element]
3/277 . . . [with prefabricated insulating elements held in position by expansion of the \( \text{extremities of the} \) insulating elements]

3/28 . . . [with additional removable glass panes or the like, framed or unframed]
particular forms of such means E05D
of wings, arrangements of wings characterised by
frame, for guiding or controlling the movement
{ ( fittings or supporting means, separable from the
solely to the manner of movement of the wing
in openings; Features of wings or frames relating
of movement; Arrangements of movable wings
Arrangements of wings characterised by the manner
)

Coverings, e.g. protecting against weather,
takes precedence )
with only one kind of movement (E06B 3/48
takes precedence)
(Wings opening towards the outside)
with at least two axes of rotation without
{ Tilt-and-turn wings
( E06B 3/48
3/46 . . . . . . [Flexible transparent foils without a proper
frame fixed and sealed at a distance from the existing
glass pane]
3/30 . . . . [Coverings, e.g. protecting against weather,
for decorative purposes }{(for door leaves
E06B 2/7001)}
3/301 . . . . [consisting of prefabricated profiled members or
glass]
3/302 . . . . [Covering wooden frames with metal or plastic
profiled members]
3/303 . . . . [Covering metal or plastic frames with wooden
profiled members]
3/304 . . . . [the frames consist of two metal section
members with insulating zone in between]
3/305 . . . . [Covering metal frames with plastic or metal
profiled members]
3/306 . . . . [Covering plastic frames with metal or plastic
profiled members]
3/307 . . . . [Coverings with special provisions for
insulation, e.g. foam filled]
3/308 . . . . (Wing frames covered on the outside by a rigidly-
mounted outer frame)
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
{ (fittings or supporting means, separable from the
frame, for guiding or controlling the movement
of wings, arrangements of wings characterised by
particular forms of such means E05D) }
3/325 . . . . { Wings opening towards the outside
3/34 . . . . with only one kind of movement (E06B 3/48
takes precedence)
3/341 . . . . { Tilt-and-turn wings
2003/343 . . . . . . [with at least two axes of rotation without
additional frame within the wing]
2003/345 . . . . . . [with additional rotating frame within the
wing]
2003/346 . . . . . . [where the additional frame rotates around a
vertical axis]
2003/348 . . . . . . [where the additional frame rotates around a
horizontal axis]
3/36 . . . . . . [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)
3/362 . . . . . . { Double winged doors or windows
3/365 . . . . . . . { Astragals for double doors
3/367 . . . . . . [specially adapted for furniture]
3/38 . . . . . . [with a horizontal axis of rotation at the top or
bottom of the opening {(E06B 3/5036 takes
precedence)}
3/385 . . . . . . [specially adapted for furniture]
3/40 . . . . . . [with a vertical or horizontal axis of rotation not
at one side of the opening, e.g. turnover wings
2003/403 . . . . . . [where the axis of rotation is horizontal
2003/406 . . . . . . [where the axis of rotation is vertical
3/42 . . . . . . Sliding wings; Details of frames with respect to
guiding {(E06B 3/26347 and E06B 3/92
take precedence) }
3/44 . . . . . . Vertically-sliding wings
3/4407 . . . . . . [Single-hung, i.e. having a single vertical
sliding panel]
3/4415 . . . . . . [Double-hung, i.e. with two vertical
sliding panels]
3/4423 . . . . . . [disappearing in a wall pocket; Pockets
therefor]
3/443 . . . . . . [specially adapted for furniture]
2003/4438 . . . . . . [characterised by the material used for the
frames]
2003/4446 . . . . . . [Wood]
2003/4453 . . . . . . [Metal]
2003/4461 . . . . . . [Plastics]
2003/4469 . . . . . . [with at least two frames made from
different materials]
2003/4476 . . . . . . [Coverings, e.g. for protecting against
weather or for decorative purposes]
2003/4484 . . . . . . [Special provisions for mounting or
dismounting sashes]
2003/4492 . . . . . . (provided with screens)
3/46 . . . . . . Horizontally-sliding wings {(E06B 3/487
takes precedence)}
3/4609 . . . . . . [for windows
(E06B 3/4654 - E06B 3/4681 take
precedence)]
3/4618 . . . . . . [the sliding wing being arranged beside
a fixed wing (E06B 3/4627 takes
precedence)]
3/4627 . . . . . . [with the sliding wing flush closing or
moving a considerable distance towards the
opening when closing]
3/4636 . . . . . . [for doors (E06B 3/4609 and
E06B 3/4654 - E06B 3/4681 take
precedence); sliding shower doors
A47K 3/34)]
3/4645 . . . . . . [with the sliding wing flush closing or
moving a considerable distance towards the
opening when closing]
3/4654 . . . . . . [disappearing in pockets in the wall;
Pockets therefor]
3/4663 . . . . . . [specially adapted for furniture]
3/4672 . . . . . . [with the sliding wing flush closing or
moving a considerable distance towards the
opening when closing]
3/4681 . . . . . . [made of glass panes without frames
(E06B 3/4663 takes precedence)]
3/469 . . . . . . [Arrangements at the overlapping vertical
dges of the wings that engage when closing]
3/48 . . . . . . Wings connected at their edges, e.g. foldable
wings
3/481 . . . . . . [Wings foldable in a zig-zag manner or bi-fold
wings]
3/482 . . . . . . [specially adapted for furniture]
3/483 . . . . . . [folding upwards (E06B 3/482 takes
precedence)]
3/485 . . . . . . [Sectional doors]
3/486 . . . . . . [with hinges being at least partially integral
part of the section panels]
3/487 . . . . . . [sliding laterally]
3/488 . . . . . . [with horizontal strengthening means; anti-
sag devices]
3/50 . . . . . . with more than one kind of movement
(E06B 3/48 takes precedence) {(E06B 3/92 takes
precedence)
Fixing of glass panes or like plates

{ E06B 3/30, E06B 3/64 ( E06B 3/64 by means of putty, cement, or adhesives only take precedence )
by clamping the pane between two subframes }
glazing clips, glaziers points
{ by means of discrete fixing elements, e.g. inside U-shaped section members }
structures for curtain walls E04B 2/885 ( E06B 3/5427 frame or with the surrounding panes takes precedence; supporting)
{ Permanently fixing of an additional unframed surrounding frame }
{ Means for locally spacing the pane from the surrounding frame }
{ Permanently fixing of an additional unframed pane (compound frames E06B 3/2605) }
{ the panes mounted flush with the surrounding frame or with the surrounding panes (E06B 3/5436 takes precedence; supporting structures for curtain walls E04B 2/885) }
{ involving holes or indentations in the pane }
{ Support arms engaging the holes or indentations }
inside U-shaped section members
{ in a preassembled frame, the pane being consecutively introduced obliquely, rotated and shifted }
in an at least partly preassembled frame by introducing it through a slot in one of the frame members or inserting the pane before completing the frame
{ by means of discrete fixing elements, e.g. glazing clips, glaziers points }
{ by clamping the pane between two subframes }
{ by means of putty, cement, or adhesives only (E06B 3/64, E06B 3/5427 take precedence) }
{ by means of borders, cleats, or the like (E06B 3/30), E06B 3/64 take precedence) }
{ not adjustable }
{ together with putty or fixed by glue }
{ hooked on or in the frame member, fixed by clips or otherwise elastically fixed (E06B 3/585 takes precedence) }
{ on or with auxiliary pieces }
{ together with parts of the border in the same undercut groove in the frame (E06B 3/5842 takes precedence) }
{ fixed by a tongue-and-groove or mortise-and-tenon connection substantially parallel to the pane }
{ adjustable, e.g. for accommodating panes of various thickness, or with provisions for altering the clamping force on the pane (E06B 3/5871 takes precedence) }
{ the fixing being adjustable, e.g. in one of several possible positions }
{ with adjusting screws, wedges or cams }
{ pivotally fixed on the frame; Borders with pivoting parts }
{ the borders being pre-assembled in a frame-like manner on the pane or on the frame before the pane is fitted to the frame (E06B 3/5645 takes precedence) }
{ Corner arrangements for borders; Devices for making rounded corners }
{ Fixing of window panes in openings in door leaves }
{ of clamping cleats of metal }
{ made of sheet metal }
{ of rubber-like elastic cleats

pressing }
{ with provisions for receiving putty or pasty adhesives }
{ with specific fixing means }
{ using nails or the like }
{ with protruding parts anchored in grooves }
{ with locking strips }
{ with grooves anchoring the cleat on a rim }
{ using glue }
{ moulded on the pane }
{ having extra functions }
{ with drainage means }
{ with extra parts sealing against the bottom of the glazing rebate or against the edge of the pane }
{ with extra parts sealing against the fixed or another window frame }
{ Specific form characteristics }
{ wedge-shaped }
{ H-shaped }
{ U-shaped }
{ S-shaped }
{ hollow }
{ consisting of several separate parts }
{ with specific characteristics concerning the material }
{ reinforced, e.g. against elongation }
{ with parts of differing nature, e.g. hardness }
{ with coverings or embellisher strips }
{ of cellular nature }
{ with provisions for receiving putty or pasty adhesives }
{ with fire resisting properties }
{ Corner arrangements }
{ using separate corner members }
NOTE

Fixing of multiple glazing units to frames is classified in the relevant groups E06B 3/5409 - E06B 3/562, except for the fixing thereof to frames designed for one pane only, which is classified in group E06B 3/645.

3/645 . . . . [units comprising two or more parallel panes to frames designed for single panes only, e.g. having too shallow a rabbet]

3/66 . . . Units comprising two or more parallel glass or like panes permanently secured together (reforming and uniting glass sheets by fusing C03B 23/00; joining glass to glass or to other materials C03C 27/00; laminated glass B32B 17/10)

3/6604 . . . [comprising false glazing bars or similar decorations between the panes (connectors therefor E06B 3/6675)]

3/6608 . . . [without separate spacing elements (E06B 3/6707 and E06B 3/6715 take precedence)]

3/6612 . . . [Evacuated glazing units]

3/6617 . . . [one of the panes being larger than another]

3/6621 . . . [with special provisions for fitting in window frames or to adjacent units; Separate edge protecting strips (E06B 3/66347 takes precedence)]

3/6625 . . . [molded on the edges]

3/663 . . . Elements for spacing panes

3/66304 . . . [Discrete spacing elements, e.g. for evacuated glazing units]

3/66309 . . . [Section members positioned at the edges of the glazing unit]

3/66314 . . . [of tubular shape (E06B 3/66323 and E06B 3/66333 take precedence)]

3/66319 . . . [of rubber, plastics or similar materials]

3/66323 . . . [comprising an interruption of the heat flow in a direction perpendicular to the unit]

3/66328 . . . [of rubber, plastics or similar materials (E06B 3/66314, E06B 3/66323 and E06B 3/66342 take precedence; transparent materials E06B 3/66333)]

3/66333 . . . [of unusual substances, e.g. wood or other fibrous materials, glass or other transparent materials]

2003/66338 . . . . [of glass]

3/66342 . . . . [characterised by their sealed connection to the panes]

3/66347 . . . . [with integral grooves or rabbets for holding the panes (E06B 3/66366 takes precedence)]

3/66352 . . . . [with separate sealing strips between the panes and the space]

3/66357 . . . . [Soldered connections or the like]

3/66361 . . . . [with special structural provisions for holding drying agents, e.g. packed in special containers]

3/66366 . . . . [specially adapted for units comprising more than two panes or for attaching intermediate sheets]

3/66371 . . . . [positioned entirely outside the gap between the panes]

3/66376 . . . . [comprising lighting means]

2003/6638 . . . . [with coatings]

2003/6639 . . . . [with special shapes]

3/66395 . . . . [U-shape]

3/667 . . . Connectors therefor

3/6675 . . . . [for connection between the spacing elements and false glazing bars]

3/67 . . . characterised by additional arrangements or devices for heat or sound insulation (or for controlled passage of light)

3/6707 . . . . [specially adapted for increased acoustical insulation (doors, windows for insulation against noise E06B 5/20)]

3/6715 . . . . [specially adapted for increased thermal insulation or for controlled passage of light (E06B 3/66323 takes precedence; coating of glass pains CD3C 17/00) devices or arrangements for controlling the intensity, colour, phase, polarisation or direction of light G02F 1/00)]

3/672 . . . . [with adjustable passage of light]

3/673 . . . . Assembling the units (E06B 3/677 takes precedence ; making hollow glass sheets or bricks CD3B 23/24)

3/67304 . . . . [Preparing rigid spacer members before assembly]

3/67308 . . . . [Making spacer frames, e.g. by bending or assembling straight sections (connectors E06B 3/6672)]

3/67313 . . . . [by bending]

3/67317 . . . . [Filling of hollow spacer elements with absorbants; Closing off the spacers therefor]

3/67321 . . . . [Covering spacer elements, e.g. with sealants]

3/67326 . . . . [Assembling spacer elements with the panes]

3/673 . . . . . [by applying, e.g. extruding, a ribbon of hardenable material on or between the panes]

3/67334 . . . . [by soldering; Preparing the panes therefor]

3/67339 . . . . [Working the edges of already assembled units]

3/67343 . . . . . [Filling or covering the edges with synthetic hardenable substances]

3/67347 . . . . [by extrusion techniques]

3/67352 . . . [by forming techniques]

3/67356 . . . [Covering the edges with bands or profiles]

3/6736 . . . [Heat treatment (for soldering E06B 3/6734)]

3/67365 . . . [Transporting or handling panes, spacer frames or units during assembly (E06B 3/67304 - E06B 3/67339 take precedence)]

3/67369 . . . . [Layout of the assembly streets]

3/67373 . . . [Rotating panes, spacer frames or units]

2003/67378 . . . . [Apparatus travelling around the periphery of the pane or the unit]

3/67382 . . . . [Transport of panes or units without touching the bottom edge]

3/67386 . . . [Presses; Clamping means holding the panes during assembly]

3/67391 . . . . [Apparatus travelling around the periphery of the pane or the unit]
Door leaves (wing frames E06B 3/04)

Window bars {bay windows E06B 1/363: joints for frame members crossing each other E06B 3/9628}

False glazing bars { E06B 3/6604: takes precedence}

Evacuating or filling the gap between the panes {; Equilibration of inside and outside pressure}; Preventing condensation in the gap between the panes (by means of spacing elements E06B 3/5663); Cleaning the gap between the panes

Door leaves with curved, e.g. cylindrical or oval cross-section (E06B 3/7001: takes precedence)

Door leaves with two similar parts placed one above the other, pivoting separately

With arcuate periphery; with openings having an arcuate periphery

Coverings therefor; Door leaves imitating traditional raised panel doors, e.g. engraved or embossed surfaces, with trim strips applied to the surfaces

Consisting of several adjacent similar elements, e.g. planks, without outer covering panels

With a separate supporting frame

Door leaves with curved, e.g. cylindrical or oval cross-section (E06B 3/7001: takes precedence)

Door leaves with two similar parts placed one above the other, pivoting separately

Consisting of frame and panels {, e.g. of raised panel type (E06B 3/7001 - E06B 3/7015 and E06B 3/82 take precedence)}

Consisting of frame and panels {, e.g. of raised panel type (E06B 3/7001 - E06B 3/7015 and E06B 3/82 take precedence)}

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Consisting of frame and panels {, e.g. of raised panel type (E06B 3/7001 - E06B 3/7015 and E06B 3/82 take precedence)}

With a fire retardant layer

Garage doors

Flush doors, i.e. with completely flat surface (E06B 3/02; E06B 3/7003 and E06B 3/7015 take precedence)

With an internal foursided frame

With a wooden frame

Of metal without an internal frame, e.g. with exterior panels substantially of metal

Of plywood [or other wooden panels without an internal frame, e.g. with exterior panels substantially of wood]

Of plastics [without an internal frame, e.g. with exterior panels substantially of plastics]

Edge-protecting devices for door leaves ([astragals for double doors E06B 3/365]; finger guards for doors or windows E06B 7/36)

Revolving doors; Cages or housings therefor (turnstiles E06B 11/08)
3/9646 . . . . [using two similar connecting pieces each connected with one or the frame members drawn together at the joint]
3/9647 . . . . [the connecting piece being part of or otherwise linked to the window or door fittings]
3/9648 . . . . [Mitre joints]
3/9649 . . . . [Tie rods spanning the whole width or height of the frame; Straps encircling the frame]
3/968 . . . . characterised by the way the connecting pieces are fixed in or on the frame members
3/9681 . . . . [by press fit or adhesion]
3/9682 . . . . [Mitre joints]
3/9684 . . . . [by hooking protrusions on the connecting piece in openings of the frame member, e.g. by snap-locking (E06B 3/972, E06B 3/976, E06B 3/98 take precedence)]
3/9685 . . . . [Mitre joints]
3/9687 . . . . [with screws blocking the connecting piece inside or on the frame member (E06B 3/972, E06B 3/976 take precedence)]
3/9688 . . . . [Mitre joints]
3/972 . . . . by increasing the cross-section of the connecting pieces, e.g. by expanding the connecting pieces with wedges (E06B 3/976 takes precedence)
3/9725 . . . . [Mitre joints]
3/976 . . . . by deformation of the frame members
3/98 . . . . the connecting pieces being specially adapted for drawing the frame members towards each other (E06B 3/984, E06B 3/972, E06B 3/976 take precedence)
3/982 . . . . [Mitre joints]
3/984 . . . . specially adapted for frame members of wood or other material worked in a similar way (E06B 3/99 takes precedence)
3/9845 . . . . [Mitre joints]
3/988 . . . . specially adapted for sheet metal frame members with an open U-shaped cross-section
3/9885 . . . . [Mitre joints]
3/99 . . . . for continuous frame members crossing each other with out interruption (window bars E06B 3/66)

5/00 Doors, windows, or like closures for special purposes (insulated compound frames specially adapted for sliding doors or windows E06B 3/26347); Border constructions therefor
5/003 . . . . [Storm doors; Combination-screen-and-storm-doors]
5/006 . . . . [for furniture (E06B 3/00, E06B 9/115 take precedence)]
5/01 . . . . Trap-doors
5/02 . . . . for out-buildings or cellars; Other simple closures not designed to be close-fitting
5/025 . . . . [Provisional closures, e.g. temporary security doors]
5/04 . . . . with fixed wooden frames
5/06 . . . . with fixed metal frames
5/08 . . . . with fixed frames made of concrete, stone-like material or plastics
Screening or similar protective devices E06B 9/00

Burglary at the edges of the wings E06B 5/113

Special arrangements or measures in connection with doors or windows: Arrangements against burglary at the edges of the wings E06B 5/113; screening or similar protective devices E06B 9/00

- for protection against air-raid or other war-like action; for other protective purposes
- [safety foils therefor]
- Frames for bullet-proof windows (transparent bullet-proof laminates E41H 5/0407)
- against burglary
- [Arrangements at the edges of the wings, e.g. with door guards to prevent forced opening by attack, tampering or jimmying of lock E05B 17/2084; anti-tamper devices arranged on or near the hinges E05D 11/0018)]
- [Arrangements preventing the removal of glazing panels]
- against air pressure, explosion, or gas
- [Closures for relieving excess pressure inside the building]
- Gasproof doors or similar closures; Adaptation of fixed constructions therefor
- Fireproof doors or similar closures; Adaptations of fixed constructions therefor
- [Profile members therefor]
- [Fireproof doors having windows or other openings, e.g. for permitting ventilation or escape]
- [Sealing arrangements between the door or window and its frame, e.g. intumescent seals specially adapted therefor]
- Fireproof windows (layered glass panes with expansion layers for fire protection B33B 17/1031)]
- [Devices blocking doors or windows inside its frame in case of fire]
- [Shape of edges of wing and/or its frame specially adapted therefor]
- against harmful radiation (against heat E06B 5/16)
- for insulation against noise
- [windows therefor]

SPECIAL ARRANGEMENTS OR MEASURES IN CONNECTION WITH DOORS OR WINDOWS

7/00

- Special arrangements or measures in connection with doors or windows: (Arrangements against burglary at the edges of the wings E06B 5/113; 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)
- [Air flow induced by fan]
- [with air flow between panes]
- Ventilating devices for inserting under upwardly-sliding windows (rain or draught deflectors E06B 7/26)
- with ventilation wings (E06B 7/08 takes precedence)
- with one ventilation wing only
- Louvre doors, windows or grilles ([shutters E06B 9/04; louvre awnings E04F 10/08 - E04F 10/10])
- with rigid or slideable lamellae
- with rotatable lamellae
- interconnected for concurrent movement

7/088 . . . . . . with facing protective grille or safety guard
7/09 . . . . . . mounted in movable wing, e.g. door
7/092 . . . . . . operable in two or more distinct sets
7/094 . . . . . . operable in sequence; characterised by additional independent movement
7/096 . . . . . . operated or interconnected by gearing (wing operators with gearing in general E05F 11/00)
7/098 . . . . . . with weather seal
7/10 . . . . by special construction of the frame members
7/12 . Measures preventing the formation of condensed water (double glazing E06B 3/24; E06B 3/28 and E06B 3/677); heating arrangements specially adapted for transparent or reflecting areas H05B 3/84)
7/14 . Measures for draining-off condensed water or water leaking-in (frame members for draining off condensation water, throats at the bottom of a sash)

2007/145 . . . . . . . [for glass façade, e.g. curtain wall]
7/16 . Sealing arrangements on wings or parts cooperating with the wings ([specially adapted for fireproof or similar closures E06B 5/16]; E06B 7/09 takes precedence; [fixed sealing joints E04B 1/68; devices for fitting sealing strips E04F 21/00])
7/18 . . . . by means of movable edgings, e.g. draught sealings additionally used for bolting, e.g. by spring force or with operating lever
7/20 . . . . automatically withdrawn when the wing is opened, e.g. by means of magnetic attraction, a pin or an inclined surface, especially for sills)

2007/202 . . . . . . (Actuator connected to wing frame)
7/205 . . . . with sealing strip mounted on sill
7/21 . . . . with sealing strip movable in plane of wing
7/215 . . . . with sealing strip being moved to a retracted position by elastic means, e.g. springs
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
7/2301 . . . . . . [without an integrally formed part for fixing the edging]
7/2303 . . . . . . [hollow]
7/2305 . . . . [with an integrally formed part for fixing the edging (E06B 7/2316 takes precedence)]
7/2307 . . . . [with a single sealing-line or -plane between the wing and the part cooperating with the wing]
7/2309 . . . . [with a hollow sealing part]
7/231 . . . . [with a solid sealing part]
7/2312 . . . . [with two or more sealing-lines or -planes between the wing and part cooperating with the wing]
7/2314 . . . . [characterised by the material]
7/2316 . . . . [used as a seal between the floor and the window]
7/2318 . . . . [by applying over- or under-pressure, e.g. inflatable (gasproof doors or windows E06B 5/12; for vehicles B60J 10/244)]
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 (also protection against light for doors)  
7/28 . Other arrangements on doors or windows, e.g. doors, plates, windows adapted to carry plants, hooks for window cleaners (edge protecting devices for door leaves E06B 3/88; special glazing; emergency glazing; double glazing E06B 3/66)  
7/285 . (Finger plates (escutcheons E05B 15/02))  
7/30 . Peep-holes; Devices for speaking through; Doors having windows  
2007/305 . . . . . . [Microphone]  
7/32 . Serving doors; Passing-through doors (: Pet-doors)  
7/34 . . . . Doors containing cupboards (cabinet constructions per se A47B)  
7/36 . . . . Finger guards (or other measures preventing harmful access between the door and the door frame (safety devices for doors in railway cars B61D 19/026; for lift doors B66B 13/26); detection of obstructions E05F 15/40)  
7/362 . . . . . . (the gap between the door and the door frame at the hinge side being constructed in a way to remain too small or too wide to cause injury)  
2007/365 . . . . . . [Rounded shape at gap, e.g. cylindrical]  
7/367 . . . . . . (by covering the gap between the door and the door frame at the hinge side)  
9/00 Screening or protective devices for [wall or similar] 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 2/24; fastening means E05; operating-mechanisms for wings in general E06F)  
2009/002 . . . . . . [Safety guards or gates]  
2009/005 . . . . . . [Storm panels; hurricane shutters]  
2009/007 . . . . . . [Flood panels]  
9/01 . . . . Grilles fixed to walls, doors, or windows; Grilles moving with doors or windows; Walls formed as grilles, e.g. claustra (emergency release of window grilles E05B 65/1033; security bars for wings E05C 19/003)  
2009/015 . . . . . . [Mounting details]  
9/02 . . . . Shutters, movable grilles, or other safety closing devices, e.g. against burglary (louvres windows or grilles E06B 7/08; lamellar blinds E06B 9/26)  
9/04 . . . . of wing type, e.g. revolving or sliding ([trap doors; louvre doors or windows E06B 7/08])  
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)  
9/0607 . . . . . . (comprising a plurality of similar rigid closing elements movable to a storage position)  
9/0615 . . . . . . [characterised by the closing elements]  
9/0623 . . . . . . [Grilles]  
9/063 . . . . . . [Bars or rods perpendicular to the closing direction]  
9/0638 . . . . . . [Slats or panels]  
9/0646 . . . . . . [characterised by the relative arrangement of the closing elements in the stored position]  
9/0653 . . . . . . [stored side by side in the closing plane]  
9/0661 . . . . . . [Lazy tongue, pantograph or scissor-like systems in the plane of the opening]  
9/0669 . . . . . . [stored in a zig-zag arrangement]  
9/0676 . . . . . . [stored in a stacked configuration]  
2009/0684 . . . . . . [stored in a spiral like arrangement]  
9/0692 . . . . 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)  
9/11 . . . . . . Roller shutters  
9/115 . . . . . . [specially adapted for furniture]  
9/13 . . . . . . with closing members of one piece, e.g. of corrugated sheet metal  
2009/135 . . . . . . [Horizontal shutter reinforcements]  
9/15 . . . . . . with closing members formed of slats or the like  
2009/1505 . . . . . . [Slat details]  
2009/1511 . . . . . . [Coatings]  
2009/1516 . . . . . . [Means to increase resistance against bending]  
2009/1522 . . . . . . [Sealing joint between adjacent slats]  
2009/1527 . . . . . . [Transparent slats or transparent sections in slats]  
2009/1533 . . . . . . [Slat connections]  
2009/1538 . . . . . . [Slats directly connected]  
2009/1544 . . . . . . [Engaging section has curved articulation surfaces]  
2009/155 . . . . . . [Slats connected by separate elements]  
2009/1555 . . . . . . [Flexible elements, e.g. tapes, strips, cords or chains]  
2009/1561 . . . . . . . . . . [Strips]  
2009/1566 . . . . . . [Rigid elements, e.g. hinges, hooks or profiles]  
2009/1572 . . . . . . [Locking means to prevent slat disengagement]  
2009/1577 . . . . . . [Slat end pieces used for guiding shutter]  
2009/1583 . . . . . . [inserted in slat cavity]  
2009/1588 . . . . . . [inserted in engaging section of adjacent slats]  
2009/1594 . . . . . . [attached to outer surface of slat]  
9/165 . . . . . . with slats disappearing in each other; with slats the distance between which can be altered  
9/17 . . . . . . Parts or details of roller shutters, e.g. suspension devices, shutter boxes, wicket doors, ventilation openings  
9/17007 . . . . . . [Shutter boxes; Details or component parts thereof]  
9/17015 . . . . . . [made of at most two pieces; Front opening details]  
9/17023 . . . . . . [made of more than two pieces]  
9/1703 . . . . . . [Fixing of the box; External plastering of the box]  
2009/17038 . . . . . . [Shutter cleaning arrangements]  
9/17046 . . . . . . [Bottom bars]  
2009/17053 . . . . . . [Door in shutter screen; wicket door]  
9/17061 . . . . . . [Connection of the box to the guides]  
2009/17069 . . . . . . [Insulation]  
9/17076 . . . . . . [Sealing or antirattling arrangements]  
2009/17084 . . . . . . [closing outlet slot of shutter box]  
2009/17092 . . . . . . [Manufacturing]
9/171...Rollers therefor; Fastening roller shutters
to rollers

9/2009/1713...{Telescopic rollers}

9/2009/1716...{Arrangements to improve rolling of the
shutter on the roller}

9/172...by clamping bars

9/173...by clasps or buttons

9/174...Bearings specially adapted therefor

9/2009/1743...{allowing radial roller movement}

9/2009/1746...{Axial connection of rollers}

9/18...Roll-type grilles

9/24... Screens or other constructions affording protection
against light, especially against sunshine; Similar
screens for privacy or appearance; {Slat blinds}
operating, guiding or securing devices or
arrangements for roll-type closures E06B 9/56; free-
hanging flexible screens A47H 23/00

9/2009/2405...{Areas of differing opacity for light transmission
control}

9/2009/2411...{Coloured fluid flow for light transmission
control}

9/2009/2417...{Light path control; means to control reflection}

9/2009/2423...{Combinations of at least two screens}

9/2009/2429...{One vertical sheet and slats}

9/2009/2435...{Two vertical sheets and slats in-between}

9/2009/2441...{Screens joined one below the other}

9/2009/2447...{Parallel screens}

9/2009/2452...{moving independently}

9/2009/2458...{moving simultaneously}

9/2009/2464...{feature transparency control by applying
voltage, e.g. LCD, electrochromic panels}

9/2009/247...{Electrically powered illumination}

9/2009/2476...{Solar cells}

9/2009/2482...{Special shape}

9/2009/2488...{Curved perimeter}

9/2009/2494...{Trapezoidal or triangular}

9/26...Lamellar or like blinds, e.g. venetian blinds {for
vehicles B60J 1/2088}

9/262...with flexibly-interconnected horizontal
or vertical strips; Concertina blinds {i.e. upwardly folding flexible screens}

9/2009/2622...{Gathered vertically; Roman, Austrian or
froston blinds}

9/2009/2625...{Pleated screens, e.g. concertina-
or accordion-like}

9/2009/2627...{Cellular screens, e.g. box or honeycomb-
like}

9/264...Combinations of lamellar blinds with roller
shutters, screen windows, windows, or double
panes; Lamellar blinds with special devices

9/2009/2643...{Screens between double windows}

9/2009/2646...{Magnetic screen operator}

9/266...Devices or accessories for making or mounting
lamellar blinds or parts thereof {cleaning
of lamellar blinds A47L 4/00; joining
plastics plates for making venetian blinds
B29C 66/437}

9/28...with horizontal lamellae, e.g. non-liftable
(louvred windows or gratings E06B 7/08)

9/2009/285...{Means for actuating a rod (being tilt rod or
lift rod)}

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

9/307...Details of tilting bars and their operation

9/308...with coaxial tilting bar and raising shaft

9/32...Operating, guiding, or securing devices
therefor {operation of tilting bars
E06B 9/307}

9/322...Details of operating devices, e.g.
pulleys, brakes, spring drums, drives
{operating devices E06B 9/68} ;
devices of general interest specially
adapted or mounted for storing and
repeatedly paying-out and re-storing
lengths of material B65H 75/34

9/2009/3222...{Cordless, i.e. user interface without
cords}

9/2009/3225...{Arrangements to aid the winding of
cords rollers}

9/2009/3227...{Axially moving rollers}

9/323...Structure or support of upper box

9/324...Cord-locks {cord-locks for curtains
A47H 3/00}

9/325...Mobilmising devices preventing raising

9/326...Details of cords, e.g. buckles, drawing
knobs

9/2009/3265...{Emergency release to prevent
strangulation or excessive load}

9/34...roller-type; {Roller shutters with adjustable
lamellae}

9/36...with vertical lamellae ; {Supporting rails
therefor}

9/361...{Transmissions located at the end of the
supporting rail}

9/362...{Travellers; Lamellae suspension stems}

9/364...{Operating mechanisms therein}

9/365...{Distance pieces therefor}

9/367...{Lamellae suspensions E06B 9/362 takes
precedence}; Bottom weights; Bottom
guides

9/368...{Driving means other than pulling cords}

9/38...Other details

9/382...Details of ladder-tapes or ladder chains, e.g.
buckles for local shortening of tapes

9/384...Details of interconnection or interaction of
tapes and lamellae

9/386...Details of lamellae

9/388...Details of bottom or upper slats or their
attachment

9/40...Roller blinds (usable only as awnings
E04F 10/06)

9/2009/402...{adjustable without the use of tools or cutting
instruments}

9/2009/405...{Two rollers}

9/2009/407...{Telescopic roller}
9/42  .  .  . Parts or details of roller blinds, e.g. suspension devices, blind boxes (brackets or adjustable mountings for roller blinds and drawable curtains A47H 1/13)

2009/425  .  .  .  [Pull chain or cord attached to bottom edge of screen]

9/44  .  .  .  . Rollers therefor; Fastening roller blinds to rollers

2009/445  .  .  .  .  [by adhesive]

9/46  .  .  .  .  by clamping bars
9/48  .  .  .  .  by clasps or buttons
9/50  .  .  .  .  Bearings specially adapted therefor
9/52  .  .  .  Devices affording protection against insects, e.g. fly screens; Mesh windows for other purposes {screens A47G 5/00}

9/521  .  .  .  .  [Frameless fly screens; Tensioning means therefor (E06B 9/54 takes precedence)]
9/522  .  .  .  .  .  Dimensionally adjustable fly screens (E06B 9/54 and E06B 9/521 take precedence)

2009/524  .  .  .  .  [Mesh details]

2009/525  .  .  .  .  Patches for mesh repair or decoration
2009/527  .  .  .  .  Mounting of screens to window or door
2009/528  .  .  .  .  Screens extending between movable wing and fixed frame of window or door
9/54  .  .  .  .  Roller fly screens (operating, guiding or securing devices therefor E06B 9/56)

2009/543  .  .  .  .  [Horizontally moving screens]

2009/546  .  .  .  .  . connected to end- or bottom-bar of roller shutter

9/56  .  .  .  .  Operating, guiding or securing devices or arrangements for roll-type closures; Spring drums; Tape drums; Counterweighting arrangements therefor (devices of general interest specially adapted or mounted for storing and repeatedly paying-out and re-storing lengths of material B65H 75/34)

9/58  .  .  .  .  Guiding devices
9/581  .  .  .  .  [Means to prevent or induce disengagement of shutter from side rails]
9/582  .  .  .  .  [Means to increase gliss, light, sound or thermal insulation]

2009/583  .  .  .  .  Cords or cables
2009/585  .  .  .  .  Emergency release to prevent damage of shutter or guiding device

2009/586  .  .  .  .  [with heating to prevent frost or condensate]
2009/587  .  .  .  .  [Mounting of guiding devices to supporting structure]

2009/588  .  .  .  .  [Sealings for guides]

9/60  .  .  .  .  Spring drums operated only by closure members
9/62  .  .  .  .  Counterweighting arrangements (E06B 9/60 takes precedence)
9/64  .  .  .  .  with lowerable roller
9/66  .  .  .  .  with a roller situated at the bottom
9/68  .  .  .  .  Operating devices or mechanisms, e.g. with electric drive

2009/6809  .  .  .  .  [Control]
2009/6818  .  .  .  .  [using sensors]
2009/6827  .  .  .  .  [sensing light]
2009/6836  .  .  .  .  [sensing obstacle]
2009/6845  .  .  .  .  [sensing position]
2009/6854  .  .  .  .  [sensing torque]
2009/6863  .  .  .  .  [sensing wind speed]

2009/6872  .  .  .  .  [using counters to determine shutter position]
2009/6881  .  .  .  .  [Mechanical counters]
2009/689  .  .  .  .  [using end switches]

9/70  .  .  .  .  comprising an electric motor positioned outside the roller
9/72  .  .  .  .  comprising an electric motor positioned inside the roller

2009/725  .  .  .  .  [with epicyclic or planetary gear train]
9/74  .  .  .  .  adapted for selective electrical or manual operation
9/76  .  .  .  .  using crank handles
9/78  .  .  .  .  for direct manual operation, e.g. by tassels, by handles

2009/785  .  .  .  .  [by belts, straps, bands, tapes, cords, tassels]
9/80  .  .  .  .  Safety measures against dropping or unauthorised opening; Braking or immobilising devices; Devices for limiting unrolling (securing devices or arrangements for direct manual operation E06B 9/78)

2009/801  .  .  .  .  [Locking arrangements]
2009/802  .  .  .  .  . [located in or close to shutter box]
2009/804  .  .  .  .  [acting directly on the shutter]
2009/805  .  .  .  .  . [located on or in the guides]
2009/807  .  .  .  .  . [Brakes preventing fast screen movement]
2009/808  .  .  .  .  . [Fluid brakes]
9/82  .  .  .  .  automatic
9/84  .  .  .  .  against dropping
9/86  .  .  .  .  against unauthorised opening
9/88  .  .  .  .  for limiting unrolling

2009/885  .  .  .  .  . [Braking mechanism activated by the bottom bar]
9/90  .  .  .  .  for immobilising the closure member in various chosen positions

2009/905  .  .  .  .  . [using wrap spring clutches]
9/92  .  .  .  .  Means allowing the closures to be shifted out of the plane of the opening

11/00 Means for allowing passage through fences, barriers or the like, e.g. stiles (general features of doors E06B 1/00 - E06B 9/00; cattle grids A01K 5/002; features peculiar to electrified wire fencing A01K 3/005)

11/02 . Gates; Doors
11/021 . [Wire gates, e.g. traction gates; Fastenings therefor (insulators, poles, handles, or the like, in electric fences H01B 17/145)]
11/022 . [characterised by the manner of movement]
11/023 . [where the gate opens within the plane of the gate]
11/025 . [vertically]
11/026 . [horizontally]
11/027 . [where the gate rotates around a horizontal axis parallel to the plane of the gate]
11/028 . [with posts connected underground]
11/04 . characterised by the kind of suspension (suspensions per se E05D)
11/045 . [exclusively for horizontally sliding gates]
11/08 . Turnstiles; [Gates for control of entry or exit of persons, e.g. in supermarkets] (control gates on vehicles B60N 5/00; [bank protection devices E05G 5/00]; with registering means G07C 9/02; [coin-freed facilities for turnstiles G07F 17/14])
11/085 . . (non-rotary or with a limited angle of rotation, e.g. 90°)