

CPC**COOPERATIVE PATENT CLASSIFICATION****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](#))

NOTE

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.

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.

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

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[E06B 11/06](#) covered by [E05B 65/00](#) B

Guidance heading:

- | | |
|----------------------------|--|
| E06B 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) |
| E06B 1/003 | . { Cavity wall closers; Fastening door or window frames in cavity walls (lintels E04C 3/02) } |
| E06B 1/006 | . { of curvilinear outline } |
| E06B 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 { (E06B 1/003 , E06B 1/24 take precedence; fastening door or window frames per se E06B 1/56) } |
| E06B 1/04 | . Frames for doors, windows, or the like to be fixed in openings ({ of curvilinear outline E06B 1/006 ; } 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) |

- E06B 1/045 .. { with separate wing abutment strips, e.g. adjustable; Door stops (sealing arrangements [E06B 7/16](#)) }
- E06B 1/06 .. Wooden frames
- E06B 1/08 ... composed of several parts with respect to the cross-section of the frame itself
- E06B 1/10 adjustable with respect to the thickness of walls
- E06B 1/12 .. Metal frames
- E06B 1/14 ... of special cross-section ([E06B 1/18](#) , [E06B 1/22](#) take precedence) { not used }
- E06B 1/16 Hollow frames
- E06B 1/18 ... composed of several parts with respect to the cross-section of the frame itself
- E06B 1/20 adjustable with respect to the thickness of walls
- E06B 1/22 ... with integral thresholds of special form
- E06B 1/24 .. Frames of natural stone, concrete, or other stone-like material
- E06B 1/26 .. Frames of plastics
- E06B 1/28 ... Hollow frames ([E06B 1/30](#) takes precedence)
- E06B 1/30 ... composed of several parts with respect to the cross-section of the frame itself
- E06B 1/32 .. Frames composed of parts made of different materials
- E06B 1/325 ... { comprising insulation between two metal section members }
- E06B 1/34 .. Coverings, e.g. protecting against weather, for decorative purposes
- E06B 1/342 ... { Reveal covering members disposed alongside of a window frame }
- E06B 1/345 ... { Renovation window frames covering the existing old frames }
- E06B 1/347 ... { Renovation door frames covering the existing old frames }
- E06B 1/36 .. Frames uniquely adapted for windows
- E06B 1/363 ... { Bay windows }
- E06B 1/366 ... { Mullions or transoms therefor }
- E06B 1/38 ... for shop, show, or like large windows
- E06B 1/40 ... Frames with parts removable to admit the glass ([E06B 1/38](#) takes precedence)
- E06B 1/52 .. Frames specially adapted for doors
- E06B 1/522 ... { for overhead garage doors }
- E06B 1/524 ... { Mullions; Transoms }
- E06B 1/526 ... { 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](#)) }
- E06B 1/528 ... { with ducts for cables or pipes }
- E06B 1/56 . Fastening frames to the border of openings { or to similar contiguous frames ([E06B 1/003](#) takes precedence) }
- E06B 1/58 .. by filling up the joints, e.g. by cementing
- E06B 1/60 .. by mechanical means, e.g. anchoring means
- E06B 1/6007 ... { between similar contiguous frames (bay windows [E06B 1/363](#)) }
- E06B 1/6015 ... { Anchoring means ([E06B 1/6007](#) , [E06B 1/6046](#) to [E06B 1/6092](#) take precedence) }
- E06B 1/6023 { 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) }
- E06B 1/603 { adjustable }

- E06B 1/6038 { specially adapted for being embedded in the wall }
- E06B 1/6046 . . . { 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) }
- E06B 1/6053 { the frame being moved perpendicularly towards the opening and held by means of snap action behind a protrusion on the border of the opening }
- E06B 1/6061 { with separate clamping means acting on opposite wall or associated surfaces }
- E06B 1/6069 . . . { Separate spacer means acting exclusively in the plane of the opening; Shims; Wedges; Tightening of a complete frame inside a wall opening ([E06B 1/6084](#) takes precedence) }
- E06B 1/6076 { of screw-type }
- E06B 1/6084 . . . { Mounting frames elastically, e.g. with springs or other elastic material, between the wall and the frame ([E06B 1/6046](#) takes precedence) }
- E06B 1/6092 . . . { 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) }

- E06B 1/62 . Tightening or covering joints between the border of openings and the frame { or between contiguous frames } ([E06B 1/34](#) takes precedence)
- E06B 2001/622 . . especially adapted for door frames ; Joint covering devices where the wall surface is parallel to the adjacent door or window frame part
- E06B 2001/624 . . with parts to be embedded in the stucco layer or otherwise linked to this layer
- E06B 2001/626 . . comprising expanding foam strips
- E06B 2001/628 . . Separate flexible joint covering strips ; Flashings
- E06B 1/64 . . by loosely-inserted means, e.g. strip, resilient tongue
- E06B 1/66 . . by labyrinth packings
- E06B 1/68 . . by profiled external parts

- E06B 1/70 . Sills ; Thresholds
- E06B 1/702 . . { Window sills }
- E06B 1/705 . . . { End-caps therefor }
- E06B 2001/707 . . Thresholds with special provision for insulation

- E06B 3/00** **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](#))**

- E06B 3/01 . Removable or disappearing walls for hangars or other halls, e.g. for aircraft (wall constructions [E04B 2/00](#))

- E06B 3/02 . Wings made completely of glass { ([E06B 3/4681](#) takes precedence) }
- E06B 3/025 . . { consisting of multiple glazing units (units per se [E06B 3/66](#)) }

- E06B 3/04 . Wing frames not characterised by the manner of movement (features relating to the manner of movement [E06B 3/32](#))

- E06B 3/06 . . Single frames
- E06B 3/08 . . . Constructions depending on the use of specified materials ([E06B 3/24](#) takes precedence)

E06B 3/10	....	of wood
E06B 3/105	.....	{ reinforced }
E06B 3/12	....	of metal
E06B 3/14	.....	of special cross-section { not used, see subgroup and E06B 3/12 }
E06B 3/16	.....	Hollow frames { of special construction, e.g. made of folded sheet metal or of two or more section parts connected together }
E06B 3/163	.....	{ with a filled cavity }
E06B 2003/166	.....	with a filled cavity
E06B 3/18	....	of concrete or other stone-like material
E06B 3/20	....	of plastics
E06B 3/205	.....	{ moulded or extruded around a core }
E06B 3/22	.....	Hollow frames { (E06B 3/205 takes precedence) }
E06B 3/221	.....	{ with the frame member having local reinforcements in some parts of its cross-section or with a filled cavity }
E06B 3/222	.....	{ with internal prefabricated reinforcing section members inserted after manufacturing of the hollow frame }
E06B 3/223	.....	{ the hollow frame members comprising several U-shaped parts assembled around a reinforcing core member }
E06B 2003/224	.....	with reinforcing plastic section members
E06B 2003/225	.....	Means for stabilising the insert
E06B 2003/226	.....	by adhesives or filling up the remainder of the cavity, e.g. together with foam
E06B 2003/227	.....	with reinforcing wooden section members
E06B 2003/228	.....	with separate reinforcements situated outside the cavity or in the walls
E06B 3/24	...	pecially adapted for double glazing (separable parts for securing panes E06B 3/64)
E06B 3/26	..	Compound frames, i.e. one frame within or behind another (E06B 3/28 takes precedence; arrangements of movable frames E06B 3/32)
E06B 3/2605	...	{ with frames permanently mounted behind or within each other, each provided with a pane or screen }
E06B 2003/261	....	Frames made of wood
E06B 2003/2615	....	Frames made of metal
E06B 2003/262	....	Frames made of plastic material
E06B 2003/2625	....	with different frames made from different materials
E06B 3/263	..	Frames with special provision for insulation
E06B 3/26301	...	{ with prefabricated insulating strips between two metal section members (with two metal frame members having interpenetrating or overlapping parts when mounted E06B 3/26336 ; combined with insulating elements formed in situ E06B 3/2675) }
E06B 3/26303	....	{ with thin strips, e.g. defining a hollow space between the metal section members }
E06B 3/26305	....	{ Connection details (deformation of portions of the metal frame members E06B 3/273 ; expansion of the extremities of the insulating elements E06B 3/277) }
E06B 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 }
E06B 2003/26309	.....	using glue
E06B 2003/2631	.....	Screw or pin connections
E06B 2003/26312	.....	Snap connections
E06B 2003/26314	.....	Provisions for reducing the shift between the strips and the metal section members
E06B 2003/26316	.....	Disconnectable connections or permitting shifting between the sections
E06B 2003/26318	.....	Connecting by rotating the metal section or the strip around its longitudinal axis
E06B 3/2632	...	{ with arrangements reducing the heat transmission, other than an interruption in a metal section }
E06B 2003/26321	....	with additional prefab insulating materials in the hollow space
E06B 2003/26323	....	with coatings reducing the radiation
E06B 2003/26325	....	the convection or radiation in a hollow space being reduced, e.g. by subdividing the hollow space
E06B 2003/26327	.....	with separate thin walled inserts
E06B 2003/26329	.....	the insulating strips between the metal sections being interconnected
E06B 2003/2633	.....	the insulating strips between the metal sections having ribs extending into the hollow space
E06B 2003/26332	....	Arrangements reducing the heat transfer in the glazing rabbet or the space between the wing and the casing frame
E06B 2003/26334	....	Contact reducing arrangements between the insulating strips and the metal sections
E06B 3/26336	...	{ with two metal frame members having interpenetrating or overlapping parts when mounted (involving sheet metal section members E06B 3/2735) }
E06B 3/26338	...	{ comprising short insulating elements disposed at intervals }
E06B 3/2634	...	{ without separate insulating elements, e.g. the heat transmission being reduced by a smaller cross-section }
E06B 3/26341	...	{ comprising only one metal frame member combined with an insulating frame member }
E06B 3/26343	...	{ with two or more separate insulating zones alternating with metal section members }
E06B 3/26345	...	{ for wooden or plastic section members }
E06B 3/26347	...	{ specially adapted for sliding doors or windows }
E06B 2003/26349	...	Details of insulating strips
E06B 2003/2635	.....	Specific form characteristics
E06B 2003/26352	.....	hollow
E06B 2003/26354	.....	filled
E06B 2003/26356	.....	Honeycomb
E06B 2003/26358	.....	stepped or undulated
E06B 2003/26359	.....	making flush mounting with neighbouring metal section members possible
E06B 2003/26361	.....	Openings, incisions or indents
E06B 2003/26363	.....	Screw channels
E06B 2003/26365	.....	Composed of several similar parts positioned one after the other
E06B 2003/26367	....	making flush mounting with neighbouring metal section members possible

E06B 2003/26369	....	Specific material characteristics
E06B 2003/2637	.....	reinforced
E06B 2003/26372	.....	with coatings
E06B 2003/26374	.....	with parts of differing nature
E06B 2003/26376	.....	Non-plastic materials, e.g. wood, metal
E06B 2003/26378	.....	comprising foam
E06B 2003/26379	....	Specific characteristics concerning the disposition between the metal section members
E06B 2003/26381	.....	disposed obliquely
E06B 2003/26383	.....	with two similar parallel strips, one shifted to one side
E06B 2003/26385	.....	with strips disposed perpendicular to each other
E06B 2003/26387	....	Performing extra functions
E06B 2003/26389	.....	Holding sealing strips or forming sealing abutments
E06B 2003/2639	.....	Provisions for fittings, e.g. locks or hinges
E06B 2003/26392	...	Glazing bars
E06B 2003/26394	...	Strengthening arrangements in case of fire
E06B 2003/26396	...	specially adapted for sheet metal frames
E06B 2003/26398	...	with two metal sections clamping a pane
E06B 3/267	...	with insulating elements formed in situ
E06B 3/2675	....	{ combined with prefabricated insulating elements }
E06B 3/273	...	with prefabricated insulating elements held in position by deformation of portions of the { metal } frame members
E06B 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 }
E06B 3/277	...	with prefabricated insulating elements held in position by expansion of the { extremities of the } insulating elements
E06B 3/28	..	with additional removable glass panes or the like, framed or unframed
E06B 3/285	...	{ flexible transparent foils without a proper frame fixed and sealed at a distance from the existing glass pane }
E06B 3/30	.	Coverings, e.g. protecting against weather, for decorative purposes { (for door leaves E06B 3/7001) }
E06B 3/301	..	{ consisting of prefabricated profiled members or glass }
E06B 3/302	...	{ Covering wooden frames with metal or plastic profiled members }
E06B 3/303	...	{ Covering metal or plastic frames with wooden profiled members }
E06B 3/304	....	{ the frames consist of two metal section members with insulating zone in between }
E06B 3/305	...	{ Covering metal frames with plastic or metal profiled members }
E06B 3/306	...	{ Covering plastic frames with metal or plastic profiled members }
E06B 3/307	...	{ Coverings with special provisions for insulation, e.g. foam filled }
E06B 3/308	..	{ Wing frames covered on the outside by a rigidly-mounted outer frame }
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 { 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 }

E06B 3/325	..	{ Wings opening towards the outside }
E06B 3/34	..	with only one kind of movement (E06B 3/48 takes precedence)
E06B 3/341	...	{ Tilt-and-turn wings }
E06B 2003/343	...	with at least two axes of rotation without additional frame within the wing
E06B 2003/345	...	with additional rotating frame within the wing
E06B 2003/346	....	where the additional frame rotates around a vertical axis
E06B 2003/348	....	where the additional frame rotates around a horizontal axis
E06B 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)
E06B 3/362	....	{ Double winged doors or windows }
E06B 3/365	.....	{ Astragals for double doors }
E06B 3/367	....	{ specially adapted for furniture }
E06B 3/38	...	with a horizontal axis of rotation at the top or bottom of the opening { (E06B 3/5036 takes precedence) }
E06B 3/385	....	{ specially adapted for furniture }
E06B 3/40	...	with a vertical or horizontal axis of rotation not at one side of the opening, e.g. turnover wings
E06B 2003/403	....	where the axis of rotation is horizontal
E06B 2003/406	....	where the axis of rotation is vertical
E06B 3/42	...	Sliding wings ; Details of frames with respect to guiding { (E06B 3/26347 and E06B 3/92 take precedence) }
E06B 3/44	....	Vertically-sliding wings
E06B 3/4407	.....	{ Single-hung, i.e. having a single vertical sliding panel }
E06B 3/4415	.....	{ Double-hung, i.e. with two vertical sliding panels }
E06B 3/4423	.....	{ disappearing in a wall pocket } ; Pockets therefor]
E06B 3/443	.....	{ specially adapted for furniture }
E06B 2003/4438	.....	characterised by the material used for the frames
E06B 2003/4446	.....	Wood
E06B 2003/4453	.....	Metal
E06B 2003/4461	.....	Plastics
E06B 2003/4469	.....	with at least two frames made from different materials
E06B 2003/4476	.....	Coverings, e.g. for protecting against weather or for decorative purposes
E06B 2003/4484	.....	Special provisions for mounting or dismounting sashes
E06B 2003/4492	.....	provided with screens
E06B 3/46	....	Horizontally-sliding wings { (E06B 3/487 takes precedence) }
E06B 3/4609	.....	{ for windows (E06B 3/4654 to E06B 3/4681 take precedence) }
E06B 3/4618	.....	{ the sliding wing being arranged beside a fixed wing (E06B 3/4627 takes precedence) }
E06B 3/4627	.....	{ with the sliding wing flush closing or moving a considerable distance towards the opening when closing }
E06B 3/4636	.....	{ for doors (E06B 3/4609 and E06B 3/4654 to E06B 3/4681 take precedence; Sliding shower doors A47K 3/22F1C) }
E06B 3/4645	.....	{ with the sliding wing flush closing or moving a considerable distance towards the opening when closing }

- E06B 3/4654 { disappearing in pockets in the wall; Pockets therefor }
- E06B 3/4663 { specially adapted for furniture }
- E06B 3/4672 { with the sliding wing flush closing or moving a considerable distance towards the opening when closing }
- E06B 3/4681 { made of glass panes without frames ([E06B 3/4663](#) takes precedence) }
- E06B 3/469 { Arrangements at the overlapping vertical edges of the wings that engage when closing }
- E06B 3/48 .. Wings connected at their edges, e.g. foldable wings
- E06B 3/481 ... { Wings foldable in a zig-zag manner or bi-fold wings }
- E06B 3/482 { specially adapted for furniture }
- E06B 3/483 { folding upwardly ([E06B 3/482](#) takes precedence) }
- E06B 3/485 ... { Sectional doors }
- E06B 3/486 { with hinges being at least partially integral part of the section panels }
- E06B 3/487 { sliding laterally }
- E06B 3/488 { with horizontal strengthening means; anti-sag devices }
- E06B 3/50 .. with more than one kind of movement ([E06B 3/48](#) takes precedence) { ([E06B 3/92](#) takes precedence) }
- E06B 3/5009 ... { where the sliding and rotating movements are necessarily performed simultaneously ([E06B 3/5027](#) , [E06B 3/5036](#) take precedence) }
- E06B 3/5018 { where the pivot axis slides during pivoting of the wing }
- E06B 3/5027 ... { "Austral" windows }
- E06B 3/5036 ... { Louvre type windows, e.g. windows made of movable strips of glass }
- E06B 3/5045 ... { specially adapted for furniture ([E06B 3/52](#) takes precedence) }
- E06B 3/5054 ... { where the sliding and rotating movements are independent of each other }
- E06B 3/5063 { the vertical sliding wings having the possibility of an additional rotational movement }
- E06B 3/5072 { the horizontal sliding wings having the possibility of an additional rotational movement }
- E06B 3/5081 { at least two wings have a different kind of movement }
- E06B 3/509 ... { where one of the sliding and rotating movements necessarily precedes the other }

WARNING

Group [E06B 3/509](#) is not complete pending a reorganisation. See also groups [E06B 3/5009](#) and [E06B 3/50 Z](#)

- E06B 3/52 ... Wings requiring lifting before opening
- E06B 3/54 . Fixing of glass panes or like plates
- E06B 3/5409 .. { Means for locally spacing the pane from the surrounding frame }
- E06B 3/5418 .. { Permanently fixing of an additional unframed pane (compound frames [E06B 3/2605](#)) }
- E06B 3/5427 .. { 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](#)) }
- E06B 3/5436 .. { involving holes or indentations in the pane }

E06B 3/5445	...	{ Support arms engaging the holes or indentations }
E06B 3/5454	..	{ inside U-shaped section members }
E06B 2003/5463	...	in a preassembled frame, the pane being consecutively introduced obliquely, rotated and shifted
E06B 2003/5472	...	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
E06B 3/5481	..	{ by means of discrete fixing elements, e.g. glazing clips, glaziers points }
E06B 3/549	..	{ by clamping the pane between two subframes }
E06B 3/56	..	by means of putty, cement, or adhesives only (E06B 3/64 { E06B 5/54C } take precedence)
E06B 3/58	..	by means of borders, cleats, or the like ({ E06B 3/30 } , E06B 3/64 take precedence)
E06B 3/5807	...	{ not adjustable }
E06B 3/5814	....	{ together with putty or fixed by glue }
E06B 3/5821	....	{ hooked on or in the frame member, fixed by clips or otherwise elastically fixed (E06B 3/585 takes precedence) }
E06B 3/5828	.....	{ on or with auxiliary pieces }
E06B 3/5835	.....	{ together with parts of the border in the same undercut groove in the frame (E06B 3/5842 takes precedence) }
E06B 3/5842	....	{ fixed by a tongue-and-groove or mortise-and-tenon connection substantially parallel to the pane }
E06B 3/585	...	{ adjustable, e.g. for accomodating panes of various thickness, or with provisions for altering the clamping force on the pane (E06B 3/5871 takes precedence) }
E06B 3/5857	....	{ the fixing being adjustable, e.g. in one of several possible positions }
E06B 3/5864	.....	{ with adjusting screws, wedges or cams }
E06B 3/5871	...	{ pivotally fixed on the frame; Borders with pivoting parts }
E06B 3/5878	...	{ 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 3/645 takes precedence) }
E06B 3/5885	...	{ Corner arrangements for borders; Devices for making rounded corners }
E06B 3/5892	...	{ Fixing of window panes in openings in door leaves }
E06B 3/60	...	of clamping cleats of metal
E06B 3/605	....	{ made of sheet metal }
E06B 3/62	...	of rubber-like elastic cleats
E06B 3/6202	....	{ positioned between adjoining panes without separate glazing bar }
E06B 3/6205	....	{ having on at least one lateral side no backing from a separate rigid glazing bead or other stiff part of the window frame }
E06B 2003/6208	....	with adjustable dimensions
E06B 2003/6211	.....	with tear away strips
E06B 2003/6214	....	specially adapted for glazing bars
E06B 2003/6217	....	with specific fixing means
E06B 2003/622	.....	using nails or the like
E06B 2003/6223	.....	with protruding parts anchored in grooves
E06B 2003/6226	.....	with locking strips
E06B 2003/6229	.....	with grooves anchoring the cleat on a rim

E06B 2003/6232	.....	using glue
E06B 2003/6235	.....	moulded on the pane
E06B 2003/6238	....	having extra functions
E06B 2003/6241	.....	with drainage means
E06B 2003/6244	.....	with extra parts sealing against the bottom of the glazing rebate or against the edge of the pane
E06B 2003/6247	.....	with extra parts sealing against the fixed or another window frame
E06B 2003/625	....	Specific form characteristics
E06B 2003/6252	.....	wedge-shaped
E06B 2003/6255	.....	H-shaped
E06B 2003/6258	.....	U-shaped
E06B 2003/6261	.....	S-shaped
E06B 2003/6264	.....	hollow
E06B 2003/6267	.....	consisting of several separate parts
E06B 2003/627	....	with specific characteristics concerning the material
E06B 2003/6273	.....	reinforced, e.g. against elongation
E06B 2003/6276	.....	with parts of differing nature, e.g. hardness
E06B 2003/6279	.....	with coverings or embellisher strips
E06B 2003/6282	.....	of cellular nature
E06B 2003/6285	.....	with provisions for receiving putty or pasty adhesives
E06B 2003/6288	.....	with fire resisting properties
E06B 2003/6291	....	Corner arrangements
E06B 2003/6294	.....	using separate corner members
E06B 2003/6297	....	for glazing panels of special shape, e.g. with undulating or U-shaped cross-section
E06B 3/64	..	Fixing of more than one pane to a frame

NOTE

Fixing of multiple glazing units to frames is classified in the relevant groups [E06B 3/5409](#) to [E06B 3/62](#), except for the fixing thereof to frames designed for one pane only, which is classified in group [E06B 3/645](#)

E06B 3/645	...	{ of units comprising two or more parallel panes to frames designed for single panes only, e.g. having too shallow a rabbet }
E06B 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) }
E06B 3/6604	..	{ comprising false glazing bars or similar decorations between the panes (connectors therefor E06B 3/6675) }
E06B 3/6608	..	{ without separate spacing elements (E06B 3/6707 and E06B 3/6715 take precedence) }
E06B 3/6612	..	{ Evacuated glazing units }
E06B 3/6617	..	{ one of the panes being larger than another }
E06B 3/6621	..	{ with special provisions for fitting in window frames or to adjacent units; Separate edge protecting strips (E06B 3/66347 takes precedence) }

E06B 3/6625	...	{ molded on the edges }
E06B 3/663	..	Element for spacing panes
E06B 3/66304	...	{ Discrete spacing elements, e.g. for evacuated glazing units }
E06B 3/66309	...	{ Section members positioned at the edges of the glazing unit }
E06B 3/66314	....	{ of tubular shape (E06B 3/66323 and E06B 3/66333 take precedence) }
E06B 3/66319	.....	{ of rubber, plastics or similar materials }
E06B 3/66323	....	{ comprising an interruption of the heat flow in a direction perpendicular to the unit }
E06B 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) }
E06B 3/66333	....	{ of unusual substances, e.g. wood or other fibrous materials, glass or other transparent materials }
E06B 2003/66338	.....	of glass
E06B 3/66342	....	{ characterised by their sealed connection to the panes }
E06B 3/66347	.....	{ with integral grooves or rabbets for holding the panes (E06B 3/66366 takes precedence) }
E06B 3/66352	.....	{ with separate sealing strips between the panes and the spacer }
E06B 3/66357	.....	{ Soldered connections or the like }
E06B 3/66361	....	{ with special structural provisions for holding drying agents, e.g. packed in special containers }
E06B 3/66366	....	{ specially adapted for units comprising more than two panes or for attaching intermediate sheets }
E06B 3/66371	....	{ positioned entirely outside the gap between the panes }
E06B 3/66376	....	{ comprising lighting means }
E06B 2003/6638	....	with coatings
E06B 2003/66385	....	with special shapes
E06B 2003/6639	....	sinuous
E06B 2003/66395	....	U-shape
E06B 3/667	...	Connectors therefor
E06B 3/6675	....	{ for connection between the spacing elements and false glazing bars }
E06B 3/67	..	characterised by additional arrangements or devices for heat or sound insulation { or for controlled passage of light }
E06B 3/6707	...	{ specially adapted for increased acoustical insulation (doors, windows for insulation against noise E06B 5/20) }
E06B 3/6715	...	{ specially adapted for increased thermal insulation or for controlled passage of light (E06B 3/66323 takes precedence; coating of glass panes C03C 17/00 ; devices or arrangements for controlling the intensity, colour, phase, polarisation or direction of light G02F 1/00) }
E06B 3/6722	....	{ with adjustable passage of light }
E06B 3/673	..	Assembling the units (E06B 3/677 takes precedence; { making hollow glass sheets or bricks C03B 23/24 })
E06B 3/67304	...	{ Preparing rigid spacer members before assembly }
E06B 3/67308	....	{ Making spacer frames, e.g. by bending or assembling straight sections (connectors E06B 3/667) }
E06B 3/67313	.....	{ by bending }
E06B 3/67317	....	{ Filling of hollow spacer elements with absorbants; Closing off the spacers }

		thereafter }
E06B 3/67321	....	{ Covering spacer elements, e.g. with sealants }
E06B 3/67326	...	{ Assembling spacer elements with the panes }
E06B 3/6733	....	{ by applying, e.g. extruding, a ribbon of hardenable material on or between the panes }
E06B 3/67334	....	{ by soldering; Preparing the panes therefor }
E06B 3/67339	...	{ Working the edges of already assembled units }
E06B 3/67343	....	{ Filling or covering the edges with synthetic hardenable substances }
E06B 3/67347	.....	{ by extrusion techniques }
E06B 3/67352	.....	{ by forming techniques }
E06B 3/67356	....	{ Covering the edges with bands or profiles }
E06B 3/6736	....	{ Heat treatment (for soldering E06B 3/67334) }
E06B 3/67365	...	{ Transporting or handling panes, spacer frames or units during assembly (E06B 3/67304 to E06B 3/67339 take precedence) }
E06B 3/67369	....	{ Layout of the assembly streets }
E06B 3/67373	....	{ Rotating panes, spacer frames or units }
E06B 2003/67378	....	Apparatus travelling around the periphery of the pane or the unit
E06B 3/67382	....	{ Transport of panes or units without touching the bottom edge }
E06B 3/67386	....	{ Presses; Clamping means holding the panes during assembly }
E06B 3/67391	...	{ Apparatus travelling around the periphery of the pane or the unit }
E06B 2003/67395	...	Non-planar units or of curvilinear outline, e.g. for vehicles
E06B 3/677	..	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 3/663) ; Cleaning the gap between the panes
E06B 3/6775	...	{ Evacuating or filling the gap during assembly }
E06B 3/68	.	Window bars { (bay windows E06B 1/363 ; joints for frame members crossing each other E06B 3/9628) }
E06B 3/685	..	{ False glazing bars (E06B 3/6604 takes precedence) }
E06B 3/70	.	Door leaves (wing frames E06B 3/04)
E06B 3/7001	..	{ Coverings therefor; Door leaves imitating traditional raised panel doors, e.g. engraved or embossed surfaces, with trim strips applied to the surfaces }
E06B 3/7003	..	{ consisting of several adjacent similar elements, e.g. planks, without outer covering panels }
E06B 3/7005	...	{ without a separate supporting frame }
E06B 3/7007	..	{ Door leaves with curved, e.g. cylindrical or oval cross-section (E06B 3/7001 takes precedence) }
E06B 3/7009	..	{ Door leaves with two similar parts placed one above the other, pivoting separately }
E06B 2003/7011	..	with easily replaceable or interchangeable panels
E06B 2003/7013	...	put in place through a slot in the frame
E06B 3/7015	..	{ characterised by the filling between two external panels (fireproof doors E06B 5/16 ; noise insulating doors E06B 5/20) }
E06B 3/7017	...	{ of grating type }
E06B 2003/7019	...	of corrugated type

E06B 2003/7021	...	consisting of wooden strips filling the whole door
E06B 2003/7023	...	of foam type
E06B 2003/7025	...	of cork ; of wood or similar fibres
E06B 2003/7026	...	of granular type
E06B 2003/7028	...	of cementitious type, e.g. concrete
E06B 2003/703	...	containing a metallic layer
E06B 2003/7032	...	of non-vegetal fibrous material, e.g. glass or rock wool
E06B 2003/7034	....	of asbestos
E06B 2003/7036	...	of plaster
E06B 2003/7038	...	made from a slurry
E06B 2003/704	...	of mineral material which is not further specified
E06B 2003/7042	...	with a fire retardant layer
E06B 2003/7044	..	Garage doors
E06B 2003/7046	..	with provisions for locks, hinges or other fittings
E06B 2003/7048	..	with arcuate periphery ; with openings having an arcuate periphery
E06B 2003/7049	..	Specific panel characteristics
E06B 2003/7051	...	of layered construction involving different materials
E06B 2003/7053	...	corrugated
E06B 2003/7055	..	Left-right hinged interchangeable door leaves
E06B 2003/7057	..	with little passing through doors
E06B 2003/7059	..	Specific frame characteristics
E06B 2003/7061	...	Wooden frames
E06B 2003/7063	....	reinforced ; in combination with other materials, e.g. foam, honeycomb
E06B 2003/7065	....	Wood fibres
E06B 2003/7067	....	of layered construction
E06B 2003/7069	....	with cladding
E06B 2003/7071	....	made of a plurality of separate blocks or strips
E06B 2003/7073	....	with fire retardant measures in frame
E06B 2003/7074	...	Metal frames
E06B 2003/7076	....	insulated
E06B 2003/7078	....	with fire retardant measures in frame
E06B 2003/708	...	insulated
E06B 2003/7082	...	Plastic frames
E06B 2003/7084	....	reinforced with metal or wood sections
E06B 2003/7086	...	One-piece frames, e.g. made out of a single panel by cutting out a middle portion, moulded frames
E06B 2003/7088	...	Two-piece frames made of a stile and an U-shaped part surrounding the panel
E06B 2003/709	...	Frame parts being attached to both sides of the panel which extends till the door edge
E06B 2003/7092	...	with frame members not directly or resiliently connected to each other
E06B 2003/7094	..	with ventilated innerspace
E06B 2003/7096	..	with possibilities to alter the extension of the door
E06B 2003/7098	..	with bracing means crossing each other, e.g. diagonally disposed

- E06B 3/72 .. consisting of frame and panels, { e.g. of raised panel type ([E06B 3/7001](#) to [E06B 3/7015](#) and [E06B 3/82](#) take precedence) }
- E06B 3/721 ... { with panels on one lateral side of the frame only }
- E06B 3/723 ... { at least one side of the frame consisting solely of a bent panel edge }
- E06B 3/725 ... { with separate hollow frames, e.g. foam-filled }
- E06B 3/726 { of metal }
- E06B 3/728 { of sheet metal }
- E06B 3/74 ... with wooden panels { or frame ([E06B 3/721](#) , [E06B 3/725](#) and [E06B 3/76](#) take precedence) }
- E06B 3/76 ... with metal panels { ([E06B 3/721](#) to [E06B 3/725](#) take precedence) }
- E06B 3/78 ... with panels of plastics { ([E06B 3/721](#) to [E06B 3/725](#) take precedence) }
- E06B 3/80 .. flexible { ([upwardly folding flexible screens](#) [E06B 9/262](#)) }
- E06B 3/805 ... { folding sideways (doors of the bellows type [E06B 3/94](#)) }
- E06B 3/82 .. Flush doors, i.e. with completely flat surface ([E06B 3/02](#) , { [E06B 3/7003](#) and [E06B 3/7015](#) } take precedence)
- E06B 3/822 ... { with an internal foursided frame }
- E06B 3/825 { with a wooden frame }
- E06B 3/827 ... { of metal without an internal frame, e.g. with exterior panels substantially of metal }
- E06B 3/84 ... of plywood { or other wooden panels without an internal frame, e.g. with exterior panels substantially of wood }
- E06B 3/86 ... of plastics { without an internal frame, e.g. with exterior panels substantially of plastics }
- E06B 3/88 .. Edge-protecting devices for door leaves ({ astragals for double doors [E06B 3/365](#) } ; finger guards for doors or windows [E06B 7/36](#))
- E06B 3/90 . Revolving doors ; Cages or housings therefor ([turnstiles](#) [E06B 11/08](#))
- E06B 3/903 .. { consisting of arcuate wings revolving around a parallel axis situated outside the wing, e.g. a cylindrical wing revolving around its axis ([E06B 3/906](#) takes precedence) }
- E06B 3/906 .. { combining radially extending wings and separately movable arcuate wings }
- E06B 3/92 . Doors or windows extensible when set in position ([foldable wings](#) [E06B 3/48](#) ; [sliding wings for windows](#) [E06B 3/42](#) ; [wall-closing devices which may be rolled up](#), e.g. [shutters](#), [E06B 9/089](#)) { ([E06B 3/01](#) takes precedence) }
- E06B 3/921 .. { with several parts mounted telescopically inside each other }
- E06B 3/922 .. { with several wings opening horizontally towards the same side of the opening and each closing a separate part of the opening ([E06B 3/921](#) and [E06B 3/928](#) take precedence) }
- E06B 3/924 ... { positioned in one plane when closed }
- E06B 3/925 .. { with several wings opening vertically towards the same side of the opening and each closing a separate part of the opening ([E06B 3/921](#) and [E06B 3/928](#) take precedence) }
- E06B 3/927 ... { positioned in one plane when closed }
- E06B 3/928 .. { Doors or windows of the lazy tongs type }
- E06B 3/94 .. Doors of the bellows type
- E06B 3/96 . Corner joints or edge joints for windows, doors, or the like frames or wings { ([E06B 3/663](#) takes precedence) }

E06B 3/9604	..	{ Welded or soldered joints (E06B 3/988 , E06B 3/99 take precedence; welding of plastics B29C 65/00 , soldering or welding of metals B23K) }
E06B 3/9608	...	{ Mitre joints }
E06B 3/9612	..	{ by filling in situ the hollow ends of the abutted frame members with a hardenable substance }
E06B 3/9616	..	{ characterised by the sealing at the junction of the frame members (E06B 3/9632 takes precedence) }
E06B 3/962	...	{ Mitre joints }
E06B 3/9624	..	{ with means specially adapted for aligning the frontal surfaces of adjacent frame member ends }
E06B 3/9628	..	{ Mitre joints concealed to look like butt joints }
E06B 3/9632	..	{ between a jamb and the threshold or sill of window or door frames }
E06B 3/9636	..	{ for frame members having longitudinal screw receiving channels }
E06B 3/964	..	using separate connection pieces, e.g. T-connection pieces (E06B 3/9604 to E06B 3/9636 and E06B 3/984 to E06B 3/99 take precedence)
E06B 3/9641	...	{ part of which remains visible (E06B 3/9647 takes precedence) }
E06B 3/9642	...	{ Butt type joints with at least one frame member cut off square; T-shape joints (E06B 3/9641 , E06B 3/9644 , E06B 3/9647 , E06B 3/9649 , E06B 3/968 take precedence) }
E06B 3/9643	....	{ for frame members being in one line with each other }
E06B 3/9644	...	{ L-shaped corner pieces having two articulated or flexible joined legs; Corner joints with variable angle }
E06B 3/9645	...	{ Mitre joints (E06B 3/9641 , E06B 3/9644 , E06B 3/9647 , E06B 3/9649 , E06B 3/968 take precedence) }
E06B 3/9646	....	{ using two similar connecting pieces each connected with one or the frame members and drawn together at the joint }
E06B 3/9647	...	{ the connecting piece being part of or otherwise linked to the window or door fittings }
E06B 3/9648	....	{ Mitre joints }
E06B 3/9649	...	{ Tie rods spanning the whole width or height of the frame; Straps encircling the frame }
E06B 3/968	...	characterised by the way the connecting pieces are fixed in or on the frame members
E06B 3/9681	....	{ by press fit or adhesion }
E06B 3/9682	.....	{ Mitre joints }
E06B 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) }
E06B 3/9685	.....	{ Mitre joints }
E06B 3/9687	....	{ with screws blocking the connecting piece inside or on the frame member (E06B 3/972 , E06B 3/976 take precedence) }
E06B 3/9688	.....	{ Mitre joints }
E06B 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)
E06B 3/9725	.....	{ Mitre joints }
E06B 3/976	....	by deformation of the frame members { (making sheet metal frames for openings B21D 53/74) }
E06B 3/9765	.....	{ Mitre joints }

- E06B 3/98 the connecting pieces being specially adapted for drawing the frame members towards each other ([E06B 3/9684](#) , [E06B 3/972](#) , [E06B 3/976](#) take precedence)
- E06B 3/982 { [Mitre joints](#) }
- E06B 3/984 . . specially adapted for frame members of wood or other material worked in a similar way ([E06B 3/99](#) takes precedence)
- E06B 3/9845 . . . { [Mitre joints](#) }
- E06B 3/988 . . specially adapted for sheet metal frame members with an open U-shaped cross-section
- E06B 3/9885 . . . { [Mitre joints](#) }
- E06B 3/99 . . for continuous frame members crossing each other with out interruption ([window bars E06B 3/68](#))

- E06B 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****

- E06B 5/003 . { [Storm doors; Combination-screen-and-storm-doors](#) }
- E06B 5/006 . { [for furniture \(\[E06B 3/00\]\(#\) , \[E06B 9/10F\]\(#\) take precedence \)](#) }
- E06B 5/01 . Trap-doors
- E06B 5/02 . for out-buildings or cellars ; Other simple closures not designed to be close-fitting
- E06B 5/025 . . { [Provisional closures, e.g. temporary security doors](#) }
- E06B 5/04 . . with fixed wooden frames
- E06B 5/06 . . with fixed metal frames
- E06B 5/08 . . with fixed frames made of concrete, stone-like material or plastics

- E06B 5/10 . for protection against air-raid or other war-like action ; for other protective purposes
- E06B 5/103 . . { [safety foils therefor](#) }
- E06B 5/106 . . { [Frames for bullet-proof windows \(\[transparent bullet-proof laminates F41H 5/0407\]\(#\) \)](#) }
- E06B 5/11 . . against burglary
- E06B 5/113 . . . { [Arrangements at the edges of the wings, e.g. with door guards to prevent the insertion of prying tools \(\[protection of the locking region by preventing insertion of a tool E05B 17/2003\]\(#\) ; means to prevent forced opening by attack, tampering or jimmying of lock \[E05B 17/2084\]\(#\) ; anti-tamper devices arranged on or near the hinges \[E05D 11/0018\]\(#\) \)](#) }
- E06B 5/116 . . . { [Arrangements preventing the removal of glazing panels](#) }
- E06B 5/12 . . against air pressure, explosion, or gas
- E06B 5/125 . . . { [Closures for relieving excess pressure inside the building](#) }
- E06B 5/14 . . . Gasproof doors or similar closures ; Adaptation of fixed constructions therefor
- E06B 5/16 . . Fireproof doors or similar closures ; Adaptations of fixed constructions therefor
- E06B 5/161 . . . { [Profile members therefor](#) }
- E06B 5/162 . . . { [Fireproof doors having windows or other openings, e.g. for permitting ventilation or escape](#) }
- E06B 5/164 . . . { [Sealing arrangements between the door or window and its frame, e.g.](#)

- intumescent seals specially adapted therefor }
- E06B 5/165 . . . { Fireproof windows (layered glass panes with expansion layers for fire protection [B32B 17/10311](#)) }
- E06B 5/167 . . . { Devices blocking doors or windows inside its frame in case of fire }
- E06B 5/168 . . . { Shape of edges of wing and/or its frame specially adapted therefor }
- E06B 5/18 . . against harmful radiation (against heat [E06B 5/16](#))
- E06B 5/20 . for insulation against noise
- E06B 5/205 . . { windows therefor }
- E06B 7/00** **Special arrangements or measures in connection with doors or windows ({ arrangements against burglary at the edges of the wings [E06B 5/11 B](#) } ; screening or similar protective devices [E06B 9/00](#))**
- E06B 7/02 . for providing ventilation, e.g. through double windows ; Arrangement of ventilation roses (airflow control members per se [F24F 13/08](#))
- E06B 2007/023 . . Air flow induced by fan
- E06B 2007/026 . . with air flow between panes
- E06B 7/03 . . Ventilating devices for inserting under upwardly-sliding windows (rain or draught deflectors [E06B 7/26](#))
- E06B 7/04 . . with ventilation wings ([E06B 7/08](#) takes precedence)
- E06B 7/06 . . . with one ventilation wing only
- E06B 7/08 . . Louvre doors, windows or grilles ((shutters [E06B 9/04](#) ; louvre awnings [E04F 10/08](#) to [E04F 10/10](#)) }
- E06B 7/082 . . . with rigid or slidable lamellae
- E06B 7/084 . . . with rotatable lamellae
- E06B 7/086 interconnected for concurrent movement
- E06B 7/088 with facing protective grille or safety guard
- E06B 7/09 mounted in movable wing, e.g. door
- E06B 7/092 operable in two or more distinct sets
- E06B 7/094 operable in sequence ; characterised by additional independent movement
- E06B 7/096 operated or interconnected by gearing (wing operators with gearing in general [E05F 11/00](#))
- E06B 7/098 with weather seal
- E06B 7/10 . . by special construction of the frame members
- E06B 7/12 . Measures preventing the formation of condensed water (double glazing [E06B 3/24](#) to [E06B 3/28](#) { and [E06B 3/677](#) } ; heating arrangements specially adapted for transparent or reflecting areas [H05B 3/84](#))
- E06B 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 }
- E06B 2007/145 . . for glass façade, e.g. curtain wall
- E06B 7/16 . Sealing arrangements on wings or parts co-operating with the wings ({ specially adapted for fireproof or similar closures [E06B 5/164](#) ; } [E06B 7/098](#) takes precedence; { fixed sealing joints [E04B 1/68](#) ; Devices for fitting sealing strips [E04F 21/00](#) })

- E06B 7/18 .. by means of movable edgings, e.g. draught sealings additionally used for bolting, { e.g. by spring force or with operating lever }
- E06B 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 }
- E06B 2007/202 Actuator connected to wing frame
- E06B 7/205 with sealing strip mounted on sill
- E06B 7/21 with sealing strip movable in plane of wing
- E06B 7/215 with sealing strip being moved to a retracted position by elastic means, e.g. springs
- E06B 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)
- E06B 7/23 ... Plastic, sponge rubber, or like strips or tubes
- E06B 7/2301 { without an integrally formed part for fixing the edging }
- E06B 7/2303 { hollow }
- E06B 7/2305 { with an integrally formed part for fixing the edging ([E06B 7/2316](#) takes precedence) }
- E06B 7/2307 { with a single sealing-line or -plane between the wing and the part co-operating with the wing }
- E06B 7/2309 { with a hollow sealing part }
- E06B 7/231 { with a solid sealing part }
- E06B 7/2312 { with two or more sealing-lines or -planes between the wing and part co-operating with the wing }
- E06B 7/2314 { characterised by the material }
- E06B 7/2316 { used as a seal between the floor and the wing }
- E06B 7/2318 { by applying over- or under-pressure, e.g. inflatable ([gasproof doors or windows E06B 5/12](#) ; for vehicles [B60J 10/0037](#)) }
- E06B 7/232 ... Resilient strips of hard material, e.g. metal
- E06B 7/24 .. without separate sealing members, e.g. with labyrinth
- E06B 7/26 . Rain or draught deflectors, e.g. under sliding wings { also protection against light for doors }
- E06B 7/28 . Other arrangements on doors or windows, e.g. door-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](#) }
- E06B 7/285 .. { Finger plates ([escutcheons E05B 15/02](#)) }
- E06B 7/30 .. Peep-holes ; Devices for speaking through ; Doors having windows
- E06B 2007/305 ... Microphone
- E06B 7/32 .. Serving doors ; Passing-through doors; { [Pet-doors](#) }
- E06B 7/34 .. Doors containing cupboards ([cabinet constructions per se A47B](#))
- E06B 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 15/0004](#)) }
- E06B 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 }
- E06B 2007/365 Rounded shape at gap, e.g. cylindrical

- E06B 7/367 . . . { by covering the gap between the door and the door frame at the hinge side }
- E06B 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 [E05F](#))**
- E06B 2009/002 . Safety guards or gates
- E06B 2009/005 . Storm panels ; hurricane shutters
- E06B 2009/007 . Flood panels
- E06B 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 \[E05C 19/003\]\(#\) \)](#) }
- E06B 2009/015 . . Mounting details
- E06B 9/02 . Shutters, movable grilles, or other safety closing devices, e.g. against burglary ([louvre windows or grilles \[E06B 7/08\]\(#\) ; lamellar blinds \[E06B 9/26\]\(#\) \)](#))
- E06B 9/04 . . of wing type, e.g. revolving or sliding { [trap doors; louvre doors or windows \[E06B 7/08\]\(#\) }](#) }
- E06B 9/06 . . collapsible or foldable, e.g. of the bellows or lazy-tongs type ([bellows-type doors \[E06B 3/94\]\(#\) ; roll-type grilles \[E06B 9/18\]\(#\) \)](#))
- E06B 9/0607 . . . { comprising a plurality of similar rigid closing elements movable to a storage position }
- E06B 9/0615 { characterised by the closing elements }
- E06B 9/0623 { Grilles }
- E06B 9/063 { Bars or rods perpendicular to the closing direction }
- E06B 9/0638 { Slats or panels }
- E06B 9/0646 { characterised by the relative arrangement of the closing elements in the stored position }
- E06B 9/0653 { stored side by side in the closing plane }
- E06B 9/0661 { Lazy tongue, pantograph or scissor-like systems in the plane of the opening }
- E06B 9/0669 { stored in a zig-zag arrangement }
- E06B 9/0676 { stored in a stacked configuration }
- E06B 2009/0684 stored in a spiral like arrangement
- E06B 9/0692 . . . { comprising flexible sheets as closing screen }
- E06B 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 \[E04F 10/06\]\(#\) \)](#))
- E06B 9/11 . . . Roller shutters
- E06B 9/115 { specially adapted for furniture }
- E06B 9/13 . . . with closing members of one piece, e.g. of corrugated sheet metal
- E06B 2009/135 Horizontal shutter reinforcements

E06B 9/15	....	with closing members formed of slats or the like
E06B 2009/1505	.....	Slat details
E06B 2009/1511	.....	Coatings
E06B 2009/1516	.....	Means to increase resistance against bending
E06B 2009/1522	.....	Sealing joint between adjacent slats
E06B 2009/1527	.....	Transparent slats or transparent sections in slats
E06B 2009/1533	.....	Slat connections
E06B 2009/1538	.....	Slats directly connected
E06B 2009/1544	.....	Engaging section has curved articulation surfaces
E06B 2009/155	.....	Slats connected by separate elements
E06B 2009/1555	.....	Flexible elements, e.g. tapes, strips, cords or chains
E06B 2009/1561	.....	Strips
E06B 2009/1566	.....	Rigid elements, e.g. hinges, hooks or profiles
E06B 2009/1572	.....	Locking means to prevent slat disengagement
E06B 2009/1577	.....	Slat end pieces used for guiding shutter
E06B 2009/1583	.....	inserted in slat cavity
E06B 2009/1588	.....	inserted in engaging section of adjacent slats
E06B 2009/1594	.....	attached to outer surface of slat
E06B 9/165	.....	with slats disappearing in each other ; with slats the distance between which can be altered
E06B 9/17	....	Parts or details of roller shutters, e.g. suspension devices, shutter boxes, wicket doors, ventilation openings
E06B 9/17007	.....	{ Shutter boxes; Details or component parts thereof }
E06B 9/17015	.....	{ made of at most two pieces; Front opening details }
E06B 9/17023	.....	{ made of more than two pieces }
E06B 9/1703	.....	{ Fixing of the box; External plastering of the box }
E06B 2009/17038	.....	Shutter cleaning arrangements
E06B 9/17046	.....	{ Bottom bars }
E06B 2009/17053	.....	Door in shutter screen ; wicket door
E06B 9/17061	.....	{ Connection of the box to the guides }
E06B 2009/17069	.....	Insulation
E06B 9/17076	.....	{ Sealing or antirattling arrangements }
E06B 2009/17084	.....	closing outlet slot of shutter box
E06B 2009/17092	.....	Manufacturing
E06B 9/171	.....	Rollers therefor ; Fastening roller shutters to rollers
E06B 2009/1713	.....	Telescopic rollers
E06B 2009/1716	.....	Arrangements to improve rolling of the shutter on the roller
E06B 9/172	.....	by clamping bars
E06B 9/173	.....	by clasps or buttons
E06B 9/174	.....	Bearings specially adapted therefor
E06B 2009/1743	.....	allowing radial roller movement
E06B 2009/1746	.....	Axial connection of rollers
E06B 9/18	...	Roll-type grilles

- E06B 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](#))
- E06B 2009/2405 .. Areas of differing opacity for light transmission control
- E06B 2009/2411 .. Coloured fluid flow for light transmission control
- E06B 2009/2417 .. Light path control ; means to control reflection
- E06B 2009/2423 .. Combinations of at least two screens
- E06B 2009/2429 ... One vertical sheet and slats
- E06B 2009/2435 ... Two vertical sheets and slats in-between
- E06B 2009/2441 ... Screens joined one below the other
- E06B 2009/2447 ... Parallel screens
- E06B 2009/2452 moving independently
- E06B 2009/2458 moving simultaneously
- E06B 2009/2464 .. featuring transparency control by applying voltage ; e.g. LCD, electrochromic panels
- E06B 2009/247 .. Electrically powered illumination
- E06B 2009/2476 .. Solar cells
- E06B 2009/2482 .. Special shape
- E06B 2009/2488 ... Curved perimeter
- E06B 2009/2494 ... Trapezoidal or triangular
- E06B 9/26 .. Lamellar or like blinds, e.g. venetian blinds { ([for vehicles B60J 1/2088](#)) }
- E06B 9/262 ... with flexibly-interconnected horizontal or vertical strips ; Concertina blinds, { [i.e. upwardly folding flexible screens](#) }
- E06B 2009/2622 Gathered vertically ; Roman, Austrian or festoon blinds
- E06B 2009/2625 Pleated screens, e.g. concertina- or accordion-like
- E06B 2009/2627 Cellular screens, e.g. box or honeycomb-like
- E06B 9/264 ... Combinations of lamellar blinds with roller shutters, screen windows, windows, or double panes ; Lamellar blinds with special devices
- E06B 2009/2643 Screens between double windows
- E06B 2009/2646 Magnetic screen operator
- E06B 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](#)) }
- E06B 9/28 ... with horizontal lamellae, e.g. non-liftable ([louvre windows or gratings E06B 7/08](#))
- E06B 2009/285 Means for actuating a rod ([being tilt rod or lift rod](#))
- E06B 9/30 liftable
- E06B 9/302 without ladder-tape, e.g. with lazy-tongs, with screw spindle
- E06B 9/303 with ladder-tape
- E06B 9/304 with tilting bar and separate raising shaft
- E06B 9/305 with tilting bar and raising cords guided along fixed bar
- E06B 9/306 with tilting bar along which the raising cords are guided
- E06B 9/307 Details of tilting bars and their operation

E06B 9/308	.....	with coaxial tilting bar and raising shaft
E06B 9/32	.....	Operating, guiding, or securing devices therefor (operation of tilting bars E06B 9/307)
E06B 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)
E06B 2009/3222	.....	Cordless, i.e. user interface without cords
E06B 2009/3225	.....	Arrangements to aid the winding of cords rollers
E06B 2009/3227	.....	Axially moving rollers
E06B 9/323	.....	Structure or support of upper box
E06B 9/324	.....	Cord-locks { cord-locks for curtains A47H 3/00 }
E06B 9/325	.....	Immobilising devices preventing raising
E06B 9/326	.....	Details of cords, e.g. buckles, drawing knobs
E06B 2009/3265	.....	Emergency release to prevent strangulation or excessive load
E06B 9/327	.....	Guides for raisable lamellar blinds with horizontal lamellae
E06B 9/34	....	roller-type; { Roller shutters with adjustable lamellae }
E06B 9/36	...	with vertical lamellae; { Supporting rails therefor }
E06B 9/361	....	{ Transmissions located at the end of the supporting rail }
E06B 9/362	....	{ Travellers; Lamellae suspension stems }
E06B 9/364	.....	{ Operating mechanisms therein }
E06B 9/365	.....	{ Distance pieces therefor }
E06B 9/367	....	{ Lamellae suspensions (E06B 9/362 takes precedence) ; Bottom weights; Bottom guides }
E06B 9/368	....	{ Driving means other than pulling cords }
E06B 9/38	...	Other details
E06B 9/382	....	Details of ladder-tapes or ladder chains, e.g. buckles for local shortening of tapes
E06B 9/384	....	Details of interconnection or interaction of tapes and lamellae
E06B 9/386	....	Details of lamellae
E06B 9/388	....	Details of bottom or upper slats or their attachment
E06B 9/40	..	Roller blinds (usable only as awnings E04F 10/06)
E06B 2009/402	...	adjustable without the use of tools or cutting instruments
E06B 2009/405	...	Two rollers
E06B 2009/407	...	Telescopic roller
E06B 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)
E06B 2009/425	....	Pull chain or cord attached to bottom edge of screen
E06B 9/44	....	Rollers therefor ; Fastening roller blinds to rollers
E06B 2009/445	.....	by adhesive
E06B 9/46	.....	by clamping bars
E06B 9/48	.....	by clasps or buttons
E06B 9/50	....	Bearings specially adapted therefor
E06B 9/52	.	Devices affording protection against insects, e.g. fly screens ; Mesh windows for other

- purposes { [screens A47G 5/00](#) }
- E06B 9/521 .. { [Frameless fly screens; Tensioning means therefor \(E06B 9/54 takes precedence \)](#) }
- E06B 9/522 .. { [Dimensionally adjustable fly screens \(E06B 9/54 and E06B 9/521 take precedence \)](#) }
- E06B 2009/524 .. Mesh details
- E06B 2009/525 .. Patches for mesh repair or decoration
- E06B 2009/527 .. Mounting of screens to window or door
- E06B 2009/528 .. Screens extending between movable wing and fixed frame of window or door
- E06B 9/54 .. Roller fly screens ([operating, guiding or securing devices therefor E06B 9/56](#))
- E06B 2009/543 ... Horizontally moving screens
- E06B 2009/546 ... connected to end- or bottom-bar of roller shutter

- E06B 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](#))
- E06B 9/58 .. Guiding devices
- E06B 9/581 ... { [Means to prevent or induce disengagement of shutter from side rails](#) }
- E06B 9/582 ... { [Means to increase gliss, light, sound or thermal insulation](#) }
- E06B 2009/583 ... Cords or cables
- E06B 2009/585 ... Emergency release to prevent damage of shutter or guiding device
- E06B 2009/586 ... with heating to prevent frost or condensate
- E06B 2009/587 ... Mounting of guiding devices to supporting structure
- E06B 2009/588 ... Sealings for guides
- E06B 9/60 .. Spring drums operated only by closure members
- E06B 9/62 .. Counterweighting arrangements ([E06B 9/60 takes precedence](#))
- E06B 9/64 .. with lowerable roller
- E06B 9/66 .. with a roller situated at the bottom
- E06B 9/68 .. Operating devices or mechanisms, e.g. with electric drive
- E06B 2009/6809 ... Control
- E06B 2009/6818 using sensors
- E06B 2009/6827 sensing light
- E06B 2009/6836 sensing obstacle
- E06B 2009/6845 sensing position
- E06B 2009/6854 sensing torque
- E06B 2009/6863 sensing wind speed
- E06B 2009/6872 using counters to determine shutter position
- E06B 2009/6881 Mechanical counters
- E06B 2009/689 using end switches
- E06B 9/70 ... comprising an electric motor positioned outside the roller
- E06B 9/72 ... comprising an electric motor positioned inside the roller
- E06B 2009/725 with epicyclic or planetary gear train

- E06B 9/74 . . . adapted for selective electrical or manual operation
- E06B 9/76 . . . using crank handles
- E06B 9/78 . . for direct manual operation, e.g. by tassels, by handles
- E06B 2009/785 . . . by belts, straps, bands, tapes, cords, tassels
- E06B 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](#))
- E06B 2009/801 . . . Locking arrangements
- E06B 2009/802 located in or close to shutter box
- E06B 2009/804 acting directly on the shutter
- E06B 2009/805 located on or in the guides
- E06B 2009/807 . . . Brakes preventing fast screen movement
- E06B 2009/808 Fluid brakes
- E06B 9/82 . . . automatic
- E06B 9/84 against dropping
- E06B 9/86 against unauthorised opening
- E06B 9/88 for limiting unrolling
- E06B 2009/885 Braking mechanism activated by the bottom bar
- E06B 9/90 for immobilising the closure member in various chosen positions
- E06B 2009/905 using wrap spring clutches
- E06B 9/92 . . Means allowing the closures to be shifted out of the plane of the opening

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

- E06B 11/02 . Gates ; Doors
- E06B 11/021 . . { [Wire gates, e.g. traction gates; Fastenings therefor \(insulators, poles, handles, or the like, in electric fences H01B 17/145 \)](#) }
- E06B 11/022 . . { [characterised by the manner of movement](#) }
- E06B 11/023 . . . { [where the gate opens within the plane of the gate](#) }
- E06B 11/025 { [vertically](#) }
- E06B 11/026 { [horizontally](#) }
- E06B 11/027 . . . { [where the gate rotates around a horizontal axis parallel to the plane of the gate](#) }
- E06B 11/028 . . { [with posts connected underground](#) }
- E06B 11/04 . . characterised by the kind of suspension ([suspensions per se E05D](#))
- E06B 11/045 . . . { [exclusively for horizontally sliding gates](#) }
- E06B 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](#) })
- E06B 11/085 . . { [non-rotary or with a limited angle of rotation, e.g. 90°](#) }