

CPC 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](#).

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 65/0007](#)

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)	1/18	. . . composed of several parts with respect to the cross-section of the frame itself
		1/20	. . . . adjustable with respect to the thickness of walls
		1/22	. . . with integral thresholds of special form
1/003	. {Cavity wall closers; Fastening door or window frames in cavity walls (lintels E04C 3/02)}	1/24	. . Frames of natural stone, concrete, or other stone-like material
1/006	. {of curvilinear outline}	1/26	. . Frames of plastics
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)}	1/28	. . . Hollow frames (E06B 1/30 takes precedence)
		1/30	. . . composed of several parts with respect to the cross-section of the frame itself
		1/32	. . Frames composed of parts made of different materials
1/04	. 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)	1/325	. . . {comprising insulation between two metal section members}
1/045	. . {with separate wing abutment strips, e.g. adjustable; Door stops (sealing arrangements E06B 7/16)}	1/34	. . Coverings, e.g. protecting against weather, for decorative purposes
1/06	. . Wooden frames	1/342	. . . {Reveal covering members disposed alongside of a window frame}
1/08	. . . composed of several parts with respect to the cross-section of the frame itself	1/345	. . . {Renovation window frames covering the existing old frames}
1/10	. . . . adjustable with respect to the thickness of walls	1/347	. . . {Renovation door frames covering the existing old frames}
1/12	. . Metal frames	1/36	. . Frames uniquely adapted for windows
1/14	. . . of special cross-section (E06B 1/18 , E06B 1/22 take precedence) {not used}	1/363	. . . {Bay windows}
1/16	. . . . Hollow frames	1/366	. . . {Mullions or transoms therefor}
		1/38	. . . for shop, show, or like large windows
		1/40	. . . Frames with parts removable to admit the glass (E06B 1/38 takes precedence)
		1/52	. . Frames specially adapted for doors
		1/522	. . . {for overhead garage doors}
		1/524	. . . {Mullions; Transoms}

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)}	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)
1/528	. . . {with ducts for cables or pipes}	3/01	. Removable or disappearing walls for hangars or other halls, e.g. for aircraft (wall constructions E04B 2/00)
1/56	. Fastening frames to the border of openings {or to similar contiguous frames (E06B 1/003 takes precedence)}	3/02	. Wings made completely of glass {(E06B 3/4681 takes precedence)}
1/58	. . by filling up the joints, e.g. by cementing	3/025	. . {consisting of multiple glazing units (units per se E06B 3/66)}
1/60	. . by mechanical means, e.g. anchoring means	3/04	. Wing frames not characterised by the manner of movement (features relating to the manner of movement E06B 3/32)
1/6007	. . . {between similar contiguous frames (bay windows E06B 1/363)}	3/06	. . Single frames
1/6015	. . . {Anchoring means (E06B 1/6007 , E06B 1/6046 - E06B 1/6092 take precedence)}	3/08	. . . Constructions depending on the use of specified materials (E06B 3/24 takes precedence)
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)}	3/10	. . . . of wood
1/603	. . . . {adjustable}	3/105	. . . . {reinforced}
1/6038	. . . . {specially adapted for being embedded in the wall}	3/12	. . . . of metal
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)}	3/14	. . . . of special cross-section {(not used, see subgroup and E06B 3/12)}
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}	3/16	. . . . . Hollow frames {of special construction, e.g. made of folded sheet metal or of two or more section parts connected together}
1/6061	. . . . {with separate clamping means acting on opposite wall or associated surfaces}	3/163	. . . . . {with a filled cavity}
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)}	2003/166	. . . . . {with a filled cavity}
1/6076	. . . . {of screw-type}	3/18	. . . . of concrete or other stone-like material
1/6084	. . . {Mounting frames elastically, e.g. with springs or other elastic material, between the wall and the frame (E06B 1/6046 takes precedence)}	3/20	. . . . of plastics
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)}	3/205	. . . . . {moulded or extruded around a core}
1/62	. Tightening or covering joints between the border of openings and the frame {or between contiguous frames} (E06B 1/34 takes precedence)	3/22	. . . . . Hollow frames {(E06B 3/205 takes precedence)}
2001/622	. . {especially adapted for door frames; Joint covering devices where the wall surface is parallel to the adjacent door or window frame part}	3/221	. . . . . {with the frame member having local reinforcements in some parts of its cross-section or with a filled cavity}
2001/624	. . {with parts to be embedded in the stucco layer or otherwise linked to this layer}	3/222	. . . . . {with internal prefabricated reinforcing section members inserted after manufacturing of the hollow frame}
2001/626	. . {comprising expanding foam strips}	3/223	. . . . . {the hollow frame members comprising several U-shaped parts assembled around a reinforcing core member}
2001/628	. . {Separate flexible joint covering strips; Flashings}	2003/224	. . . . . {with reinforcing plastic section members}
1/64	. . by loosely-inserted means, e.g. strip, resilient tongue	2003/225	. . . . . {Means for stabilising the insert}
1/66	. . by labyrinth packings	2003/226	. . . . . {by adhesives or filling up the remainder of the cavity, e.g. together with foam}
1/68	. . by profiled external parts	2003/227	. . . . . {with reinforcing wooden section members}
1/70	. Sills; Thresholds	2003/228	. . . . . {with separate reinforcements situated outside the cavity or in the walls}
1/702	. . {Window sills}	3/24	. . . specially adapted for double glazing (separable parts for securing panes E06B 3/64)
1/705	. . . {End-caps therefor}	3/26	. . Compound frames, i.e. one frame within or behind another (E06B 3/28 takes precedence; arrangements of movable frames E06B 3/32)
2001/707	. . {Thresholds with special provision for insulation}		

3/2605	. . . {with frames permanently mounted behind or within each other, each provided with a pane or screen}	3/26341	. . . {comprising only one metal frame member combined with an insulating frame member}
2003/261	. . . . {Frames made of wood}	3/26343	. . . {with two or more separate insulating zones alternating with metal section members}
2003/2615	. . . . {Frames made of metal}	3/26345	. . . {for wooden or plastic section members}
2003/262	. . . . {Frames made of plastic material}	3/26347	. . . {specially adapted for sliding doors or windows}
2003/2625	. . . . {with different frames made from different materials}	2003/26349	. . . {Details of insulating strips}
3/263	. . Frames with special provision for insulation	2003/2635	. . . . {Specific form characteristics}
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)}	2003/26352	. . . . . {hollow}
3/26303	. . . . {with thin strips, e.g. defining a hollow space between the metal section members}	2003/26354	. . . . . {filled}
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)}	2003/26356	. . . . . {Honeycomb}
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}	2003/26358	. . . . . {stepped or undulated}
2003/26309	. . . . . {using glue}	2003/26359	. . . . . {making flush mounting with neighbouring metal section members possible}
2003/2631	. . . . . {Screw or pin connections}	2003/26361	. . . . . {Openings, incisions or indents}
2003/26312	. . . . . {Snap connections}	2003/26363	. . . . . {Screw channels}
2003/26314	. . . . . {Provisions for reducing the shift between the strips and the metal section members}	2003/26365	. . . . . {Composed of several similar parts positioned one after the other}
2003/26316	. . . . . {Disconnectable connections or permitting shifting between the sections}	2003/26367	. . . . . {making flush mounting with neighbouring metal section members possible}
2003/26318	. . . . . {Connecting by rotating the metal section or the strip around its longitudinal axis}	2003/26369	. . . . . {Specific material characteristics}
3/2632	. . . {with arrangements reducing the heat transmission, other than an interruption in a metal section}	2003/2637	. . . . . {reinforced}
2003/26321	. . . . {with additional prefab insulating materials in the hollow space}	2003/26372	. . . . . {with coatings}
2003/26323	. . . . {with coatings reducing the radiation}	2003/26374	. . . . . {with parts of differing nature}
2003/26325	. . . . {the convection or radiation in a hollow space being reduced, e.g. by subdividing the hollow space}	2003/26376	. . . . . {Non-plastic materials, e.g. wood, metal}
2003/26327	. . . . . {with separate thin walled inserts}	2003/26378	. . . . . {comprising foam}
2003/26329	. . . . . {the insulating strips between the metal sections being interconnected}	2003/26379	. . . . . {Specific characteristics concerning the disposition between the metal section members}
2003/2633	. . . . . {the insulating strips between the metal sections having ribs extending into the hollow space}	2003/26381	. . . . . {disposed obliquely}
2003/26332	. . . . . {Arrangements reducing the heat transfer in the glazing rabbet or the space between the wing and the casing frame}	2003/26383	. . . . . {with two similar parallel strips, one shifted to one side}
2003/26334	. . . . . {Contact reducing arrangements between the insulating strips and the metal sections}	2003/26385	. . . . . {with strips disposed perpendicular to each other}
3/26336	. . . {with two metal frame members having interpenetrating or overlapping parts when mounted (involving sheet metal section members E06B 3/2735)}	2003/26387	. . . . . {Performing extra functions}
3/26338	. . . {comprising short insulating elements disposed at intervals}	2003/26389	. . . . . {Holding sealing strips or forming sealing abutments}
3/2634	. . . {without separate insulating elements, e.g. the heat transmission being reduced by a smaller cross-section}	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 {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 {extremities of the} insulating elements
		3/28	. . with additional removable glass panes or the like, framed or unframed
		3/285	. . . {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 3/7001)}	3/443	• {specially adapted for furniture}
3/301	• . {consisting of prefabricated profiled members or glass}	2003/4438	• {characterised by the material used for the frames}
3/302	• . . {Covering wooden frames with metal or plastic profiled members}	2003/4446	• {Wood}
3/303	• . . {Covering metal or plastic frames with wooden profiled members}	2003/4453	• {Metal}
3/304	• . . . {the frames consist of two metal section members with insulating zone in between}	2003/4461	• {Plastics}
3/305	• . . {Covering metal frames with plastic or metal profiled members}	2003/4469	• {with at least two frames made from different materials}
3/306	• . . {Covering plastic frames with metal or plastic profiled members}	2003/4476	• {Coverings, e.g. for protecting against weather or for decorative purposes}
3/307	• . . {Coverings with special provisions for insulation, e.g. foam filled}	2003/4484	• {Special provisions for mounting or dismounting sashes}
3/308	• . {Wing frames covered on the outside by a rigidly-mounted outer frame}	2003/4492	• {provided with screens}
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)}	3/46	• Horizontally-sliding wings {(E06B 3/487 takes precedence)}
3/325	• . {Wings opening towards the outside}	3/4609	• {for windows (E06B 3/4654 - E06B 3/4681 take precedence)}
3/34	• . with only one kind of movement (E06B 3/48 takes precedence)	3/4618	• {the sliding wing being arranged beside a fixed wing (E06B 3/4627 takes precedence)}
3/341	• . . {Tilt-and-turn wings}	3/4627	• {with the sliding wing flush closing or moving a considerable distance towards the opening when closing}
2003/343	• . . {with at least two axes of rotation without additional frame within the wing}	3/4636	• {for doors (E06B 3/4609 and E06B 3/4654 - E06B 3/4681 take precedence; sliding shower doors A47K 3/34)}
2003/345	• . . {with additional rotating frame within the wing}	3/4645	• {with the sliding wing flush closing or moving a considerable distance towards the opening when closing}
2003/346	• . . . {where the additional frame rotates around a vertical axis}	3/4654	• {disappearing in pockets in the wall; Pockets therefor}
2003/348	• . . . {where the additional frame rotates around a horizontal axis}	3/4663	• {specially adapted for furniture}
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)	3/4672	• {with the sliding wing flush closing or moving a considerable distance towards the opening when closing}
3/362	• . . . {Double winged doors or windows}	3/4681	• {made of glass panes without frames (E06B 3/4663 takes precedence)}
3/365	• . . . {Astragals for double doors}	3/469	• {Arrangements at the overlapping vertical edges of the wings that engage when closing}
3/367	• . . . {specially adapted for furniture}	3/48	• . Wings connected at their edges, e.g. foldable wings
3/38	• . . with a horizontal axis of rotation at the top or bottom of the opening {(E06B 3/5036 takes precedence)}	3/481	• . . {Wings foldable in a zig-zag manner or bi-fold wings}
3/385	• . . . {specially adapted for furniture}	3/482	• . . . {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	3/483	• . . . {folding upwardly (E06B 3/482 takes precedence)}
2003/403	• . . . {where the axis of rotation is horizontal}	3/485	• . . {Sectional doors}
2003/406	• . . . {where the axis of rotation is vertical}	3/486	• . . . {with hinges being at least partially integral part of the section panels}
3/42	• . . Sliding wings; Details of frames with respect to guiding {(E06B 3/26347 and E06B 3/92 take precedence)}	3/487	• . . . {sliding laterally}
3/44	• . . . Vertically-sliding wings	3/488	• . . . {with horizontal strengthening means; anti-sag devices}
3/4407	• {Single-hung, i.e. having a single vertical sliding panel}	3/50	• . with more than one kind of movement (E06B 3/48 takes precedence) {(E06B 3/92 takes precedence)}
3/4415	• {Double-hung, i.e. with two vertical sliding panels}	3/5009	• . . {where the sliding and rotating movements are necessarily performed simultaneously (E06B 3/5027 , E06B 3/5036 take precedence)}
3/4423	• {disappearing in a wall pocket; Pockets therefor}	3/5018	• . . . {where the pivot axis slides during pivoting of the wing}
		3/5027	• . . {"Austral" windows}

3/5036	. . . {Louvre type windows, e.g. windows made of movable strips of glas}	3/5871	. . . {pivotally fixed on the frame; Borders with pivoting parts}
3/5045	. . . {specially adapted for furniture (E06B 3/52 takes precedence)}	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)}
3/5054	. . . {where the sliding and rotating movements are independent of each other}	3/5885	. . . {Corner arrangements for borders; Devices for making rounded corners}
3/5063	. . . . {the vertical sliding wings having the possibility of an additional rotational movement}	3/5892	. . . {Fixing of window panes in openings in door leaves}
3/5072	. . . . {the horizontal sliding wings having the possibility of an additional rotational movement}	3/60	. . . of clamping cleats of metal
3/5081	. . . . {at least two wings have a different kind of movement}	3/605	. . . . {made of sheet metal}
3/509	. . . {where one of the sliding and rotating movements necessarily precedes the other}	3/62	. . . of rubber-like elastic cleats
3/52	. . . Wings requiring lifting before opening	3/6202	. . . . {positioned between adjoining panes without separate glazing bar}
3/54	. Fixing of glass panes or like plates	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}
3/5409	. . {Means for locally spacing the pane from the surrounding frame}	2003/6208	. . . . {with adjustable dimensions}
3/5418	. . {Permanently fixing of an additional unframed pane (compound frames E06B 3/2605)}	2003/6211	. . . . {with tear away strips}
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)}	2003/6214	. . . . {specially adapted for glazing bars}
3/5436	. . {involving holes or indentations in the pane}	2003/6217	. . . . {with specific fixing means}
3/5445	. . . {Support arms engaging the holes or indentations}	2003/622	. . . . {using nails or the like}
3/5454	. . {inside U-shaped section members}	2003/6223	. . . . {with protruding parts anchored in grooves}
2003/5463	. . . {in a preassembled frame, the pane being consecutively introduced obliquely, rotated and shifted}	2003/6226	. . . . {with locking strips}
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}	2003/6229	. . . . {with grooves anchoring the cleat on a rim}
3/5481	. . {by means of discrete fixing elements, e.g. glazing clips, glaziers points}	2003/6232	. . . . {using glue}
3/549	. . {by clamping the pane between two subframes}	2003/6235	. . . . {moulded on the pane}
3/56	. . by means of putty, cement, or adhesives only (E06B 3/64 (E06B 3/5427) take precedence)	2003/6238	. . . . {having extra functions}
3/58	. . by means of borders, cleats, or the like ((E06B 3/30) , E06B 3/64 take precedence)	2003/6241	. . . . {with drainage means}
3/5807	. . . {not adjustable}	2003/6244	. . . . {with extra parts sealing against the bottom of the glazing rebate or against the edge of the pane}
3/5814	. . . . {together with putty or fixed by glue}	2003/6247	. . . . {with extra parts sealing against the fixed or another window frame}
3/5821	. . . . {hooked on or in the frame member, fixed by clips or otherwise elastically fixed (E06B 3/585 takes precedence)}	2003/625	. . . . {Specific form characteristics}
3/5828	. . . . . {on or with auxiliary pieces}	2003/6252	. . . . {wedge-shaped}
3/5835	. . . . . {together with parts of the border in the same undercut groove in the frame (E06B 3/5842 takes precedence)}	2003/6255	. . . . {H-shaped}
3/5842	. . . . {fixed by a tongue-and-groove or mortise-and-tenon connection substantially parallel to the pane}	2003/6258	. . . . {U-shaped}
3/585	. . . {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)}	2003/6261	. . . . {S-shaped}
3/5857	. . . . {the fixing being adjustable, e.g. in one of several possible positions}	2003/6264	. . . . {hollow}
3/5864	. . . . . {with adjusting screws, wedges or cams}	2003/6267	. . . . {consisting of several separate parts}
		2003/627	. . . . {with specific characteristics concerning the material}
		2003/6273	. . . . {reinforced, e.g. against elongation}
		2003/6276	. . . . {with parts of differing nature, e.g. hardness}
		2003/6279	. . . . {with coverings or embellisher strips}
		2003/6282	. . . . {of cellular nature}
		2003/6285	. . . . {with provisions for receiving putty or pasty adhesives}
		2003/6288	. . . . {with fire resisting properties}
		2003/6291	. . . . {Corner arrangements}
		2003/6294	. . . . {using separate corner members}
		2003/6297	. . . . {for glazing panels of special shape, e.g. with undulating or U-shaped cross-section}
		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

E06B 3/64

(continued)

- [E06B 3/5409](#) - [E06B 3/62](#), except for the fixing thereof to frames designed for one pane only, which is classified in group [E06B 3/645](#)
- 3/645 . . . {of 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 spacer}
- 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}
- 2003/66385 {with special shapes}
- 2003/6639 {sinuous}
- 2003/66395 {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 panes [C03C 17/00](#); devices or arrangements for controlling the intensity, colour, phase, polarisation or direction of light [G02F 1/00](#))}
- 3/6722 {with adjustable passage of light}
- 3/673 . . Assembling the units ([E06B 3/677](#) takes precedence; making hollow glass sheets or bricks [C03B 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 3/667](#))}
- 3/67313 {by bending}
- 3/67317 {Filling of hollow spacer elements with absorbants; Closing off the spacers thereafter}
- 3/67321 {Covering spacer elements, e.g. with sealants}
- 3/67326 . . . {Assembling spacer elements with the panes}
- 3/6733 {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 3/67334](#))}
- 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}
- 2003/67395 . . . {Non-planar units or of curvilinear outline, e.g. for vehicles}

- 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
- 3/6775 . . . {Evacuating or filling the gap during assembly}
- 3/68 . . Window bars {(bay windows [E06B 1/363](#); joints for frame members crossing each other [E06B 3/9628](#))}
- 3/685 . . {False glazing bars ([E06B 3/6604](#) takes precedence)}
- 3/70 . . Door leaves (wing frames [E06B 3/04](#))
- 3/7001 . . {Coverings therefor; Door leaves imitating traditional raised panel doors, e.g. engraved or embossed surfaces, with trim strips applied to the surfaces}
- 3/7003 . . {consisting of several adjacent similar elements, e.g. planks, without outer covering panels}
- 3/7005 . . . {without a separate supporting frame}
- 3/7007 . . {Door leaves with curved, e.g. cylindrical or oval cross-section ([E06B 3/7001](#) takes precedence)}
- 3/7009 . . {Door leaves with two similar parts placed one above the other, pivoting separately}
- 2003/7011 . . {with easily replaceable or interchangeable panels}
- 2003/7013 . . . {put in place through a slot in the frame}
- 3/7015 . . {characterised by the filling between two external panels (fireproof doors [E06B 5/16](#); noise insulating doors [E06B 5/20](#))}
- 3/7017 . . . {of grating type}
- 2003/7019 . . . {of corrugated type}
- 2003/7021 . . . {consisting of wooden strips filling the whole door}
- 2003/7023 . . . {of foam type}
- 2003/7025 . . . {of cork; of wood or similar fibres}
- 2003/7026 . . . {of granular type}
- 2003/7028 . . . {of cementitious type, e.g. concrete}
- 2003/703 . . . {containing a metallic layer}
- 2003/7032 . . . {of non-vegetal fibrous material, e.g. glass or rock wool}
- 2003/7034 {of asbestos}
- 2003/7036 . . . {of plaster}
- 2003/7038 . . . {made from a slurry}
- 2003/704 . . . {of mineral material which is not further specified}
- 2003/7042 . . . {with a fire retardant layer}
- 2003/7044 . . {Garage doors}
- 2003/7046 . . {with provisions for locks, hinges or other fittings}
- 2003/7048 . . {with arcuate periphery; with openings having an arcuate periphery}
- 2003/7049 . . {Specific panel characteristics}
- 2003/7051 . . . {of layered construction involving different materials}
- 2003/7053 . . . {corrugated}
- 2003/7055 . . {Left-right hinged interchangeable door leaves}
- 2003/7057 . . {with little passing through doors}
- 2003/7059 . . {Specific frame characteristics}
- 2003/7061 . . . {Wooden frames}
- 2003/7063 {reinforced; in combination with other materials, e.g. foam, honeycomb}
- 2003/7065 {Wood fibres}
- 2003/7067 {of layered construction}
- 2003/7069 {with cladding}
- 2003/7071 {made of a plurality of separate blocks or strips}
- 2003/7073 {with fire retardant measures in frame}
- 2003/7074 . . . {Metal frames}
- 2003/7076 {insulated}
- 2003/7078 {with fire retardant measures in frame}
- 2003/708 . . . {insulated}
- 2003/7082 . . . {Plastic frames}
- 2003/7084 {reinforced with metal or wood sections}
- 2003/7086 {One-piece frames, e.g. made out of a single panel by cutting out a middle portion, moulded frames}
- 2003/7088 . . . {Two-piece frames made of a stile and an U-shaped part surrounding the panel}
- 2003/709 . . . {Frame parts being attached to both sides of the panel which extends till the door edge}
- 2003/7092 . . . {with frame members not directly or resiliently connected to each other}
- 2003/7094 . . . {with ventilated innerspace}
- 2003/7096 . . . {with possibilities to alter the extension of the door}
- 2003/7098 . . . {with bracing means crossing each other, e.g. diagonally disposed}
- 3/72 . . . consisting of frame and panels{, e.g. of raised panel type ([E06B 3/7001](#) - [E06B 3/7015](#) and [E06B 3/82](#) take precedence)}
- 3/721 . . . {with panels on one lateral side of the frame only}
- 3/723 . . . {at least one side of the frame consisting solely of a bent panel edge}
- 3/725 . . . {with separate hollow frames, e.g. foam-filled}
- 3/726 {of metal}
- 3/728 {of sheet metal}
- 3/74 . . . with wooden panels {or frame ([E06B 3/721](#), [E06B 3/725](#) and [E06B 3/76](#) take precedence)}
- 3/76 . . . with metal panels {([E06B 3/721](#) - [E06B 3/725](#) take precedence)}
- 3/78 . . . with panels of plastics {([E06B 3/721](#) - [E06B 3/725](#) take precedence)}
- 3/80 . . flexible {(upwardly folding flexible screens [E06B 9/262](#))}
- 3/805 . . . {folding sideways (doors of the bellows type [E06B 3/94](#))}
- 3/82 . . Flush doors, i.e. with completely flat surface ([E06B 3/02](#), [E06B 3/7003](#) and [E06B 3/7015](#) take precedence)
- 3/822 . . . {with an internal foursided frame}
- 3/825 {with a wooden frame}
- 3/827 . . . {of metal without an internal frame, e.g. with exterior panels substantially of metal}
- 3/84 . . . of plywood {or other wooden panels without an internal frame, e.g. with exterior panels substantially of wood}
- 3/86 . . . of plastics {without an internal frame, e.g. with exterior panels substantially of plastics}
- 3/88 . . Edge-protecting devices for door leaves ({astragals for double doors [E06B 3/365](#)}; finger guards for doors or windows [E06B 7/36](#))
- 3/90 . . Revolving doors; Cages or housings therefor (turnstiles [E06B 11/08](#))

- 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)}
- 3/906 . . {combining radially extending wings and separately movable arcuate wings}
- 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 9/11](#)) {([E06B 3/01](#) takes precedence)}
- 3/921 . . {with several parts mounted telescopically inside each other}
- 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)}
- 3/924 . . . {positioned in one plane when closed}
- 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)}
- 3/927 . . . {positioned in one plane when closed}
- 3/928 . . {Doors or windows of the lazy tongs type}
- 3/94 . . Doors of the bellows type
- 3/96 . Corner joints or edge joints for windows, doors, or the like frames or wings {([E06B 3/663](#) takes precedence)}
- 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](#))}
- 3/9608 . . . {Mitre joints}
- 3/9612 . . {by filling in situ the hollow ends of the abutted frame members with a hardenable substance}
- 3/9616 . . {characterised by the sealing at the junction of the frame members ([E06B 3/9632](#) takes precedence)}
- 3/962 . . . {Mitre joints}
- 3/9624 . . {with means specially adapted for aligning the frontal surfaces of adjacent frame member ends}
- 3/9628 . . {Mitre joints concealed to look like butt joints}
- 3/9632 . . {between a jamb and the threshold or sill of window or door frames}
- 3/9636 . . {for frame members having longitudinal screw receiving channels}
- 3/964 . . using separate connection pieces, e.g. T-connection pieces ([E06B 3/9604](#) - [E06B 3/9636](#) and [E06B 3/984](#) - [E06B 3/99](#) take precedence)
- 3/9641 . . . {part of which remains visible ([E06B 3/9647](#) takes precedence)}
- 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)}
- 3/9643 {for frame members being in one line with each other}
- 3/9644 . . . {L-shaped corner pieces having two articulated or flexible joined legs; Corner joints with variable angle}
- 3/9645 . . . {Mitre joints ([E06B 3/9641](#), [E06B 3/9644](#), [E06B 3/9647](#), [E06B 3/9649](#), [E06B 3/968](#) take precedence)}
- 3/9646 {using two similar connecting pieces each connected with one or the frame members and 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 {([making sheet metal frames for openings B21D 53/74](#))}
- 3/9765 {Mitre joints}
- 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)
- 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 3/68](#))
- 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

5/10	. for protection against air-raid or other war-like action; for other protective purposes	7/088	. . . . . with facing protective grille or safety guard
5/103	. . {safety foils therefor}	7/09	. . . . . mounted in movable wing, e.g. door
5/106	. . {Frames for bullet-proof windows (transparent bullet-proof laminates F41H 5/0407)}	7/092	. . . . . operable in two or more distinct sets
5/11	. . against burglary	7/094	. . . . . operable in sequence; characterised by additional independent movement
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)}	7/096	. . . . . operated or interconnected by gearing (wing operators with gearing in general E05F 11/00)
5/116	. . . {Arrangements preventing the removal of glazing panels}	7/098	. . . . . with weather seal
5/12	. . against air pressure, explosion, or gas	7/10	. . by special construction of the frame members
5/125	. . . {Closures for relieving excess pressure inside the building}	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)
5/14	. . . Gasproof doors or similar closures; Adaptation of fixed constructions therefor	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}
5/16	. . Fireproof doors or similar closures; Adaptations of fixed constructions therefor	2007/145	. . {for glass façade, e.g. curtain wall}
5/161	. . . {Profile members therefor}	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)}
5/162	. . . {Fireproof doors having windows or other openings, e.g. for permitting ventilation or escape}	7/18	. . by means of movable edgings, e.g. draught sealings additionally used for bolting{, e.g. by spring force or with operating lever}
5/164	. . . {Sealing arrangements between the door or window and its frame, e.g. intumescent seals specially adapted therefor}	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}
5/165	. . . {Fireproof windows (layered glass panes with expansion layers for fire protection B32B 17/10311)}	2007/202	. . . . {Actuator connected to wing frame}
5/167	. . . {Devices blocking doors or windows inside its frame in case of fire}	7/205	. . . . with sealing strip mounted on sill
5/168	. . . {Shape of edges of wing and/or its frame specially adapted therefor}	7/21	. . . . with sealing strip movable in plane of wing
5/18	. . against harmful radiation (against heat E06B 5/16)	7/215	. . . . with sealing strip being moved to a retracted position by elastic means, e.g. springs
5/20	. for insulation against noise	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)
5/205	. . {windows therefor}	7/23	. . . Plastic, sponge rubber, or like strips or tubes
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)}	7/2301	. . . . {without an integrally formed part for fixing the edging}
7/02	. for providing ventilation, e.g. through double windows; Arrangement of ventilation roses (airflow control members per se F24F 13/08)	7/2303	. . . . . {hollow}
2007/023	. . {Air flow induced by fan}	7/2305	. . . . {with an integrally formed part for fixing the edging (E06B 7/2316 takes precedence)}
2007/026	. . {with air flow between panes}	7/2307	. . . . . {with a single sealing-line or -plane between the wing and the part co-operating with the wing}
7/03	. . Ventilating devices for inserting under upwardly-sliding windows (rain or draught deflectors E06B 7/26)	7/2309	. . . . . {with a hollow sealing part}
7/04	. . with ventilation wings (E06B 7/08 takes precedence)	7/231	. . . . . {with a solid sealing part}
7/06	. . . with one ventilation wing only	7/2312	. . . . . {with two or more sealing-lines or -planes between the wing and part co-operating with the wing}
7/08	. . Louvre doors, windows or grilles ({shutters E06B 9/04 ; louvre awnings E04F 10/08 - E04F 10/10)}	7/2314	. . . . {characterised by the material}
7/082	. . . with rigid or slidable lamellae	7/2316	. . . . {used as a seal between the floor and the wing}
7/084	. . . with rotatable lamellae	7/2318	. . . . {by applying over- or under-pressure, e.g. inflatable (gasproof doors or windows E06B 5/12 ; for vehicles B60J 10/244)}
7/086	. . . . interconnected for concurrent movement	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}	9/0661	• {Lazy tongue, pantograph or scissor-like systems in the plane of the opening}
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)}	9/0669	• {stored in a zig-zag arrangement}
		9/0676	• {stored in a stacked configuration}
7/285	• . {Finger plates (escutcheons E05B 15/02)}	2009/0684	• {stored in a spiral like arrangement}
7/30	• . Peep-holes; Devices for speaking through; Doors having windows	9/0692	• . . {comprising flexible sheets as closing screen}
2007/305	• . . {Microphone}	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)
7/32	• . Serving doors; Passing-through doors {; Pet-doors}	9/11	• . . . Roller shutters
7/34	• . Doors containing cupboards (cabinet constructions per se A47B)	9/115	• {specially adapted for furniture}
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)}	9/13	• with closing members of one piece, e.g. of corrugated sheet metal
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}	2009/135	• {Horizontal shutter reinforcements}
2007/365	• {Rounded shape at gap, e.g. cylindrical}	9/15	• with closing members formed of slats or the like
7/367	• . . {by covering the gap between the door and the door frame at the hinge side}	2009/1505	• {Slat details}
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)	2009/1511	• {Coatings}
2009/002	• {Safety guards or gates}	2009/1516	• {Means to increase resistance against bending}
2009/005	• {Storm panels; hurricane shutters}	2009/1522	• {Sealing joint between adjacent slats}
2009/007	• {Flood panels}	2009/1527	• {Transparent slats or transparent sections in slats}
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)}	2009/1533	• {Slat connections}
2009/015	• . {Mounting details}	2009/1538	• {Slats directly connected}
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)	2009/1544	• {Engaging section has curved articulation surfaces}
9/04	• . of wing type, e.g. revolving or sliding {(trap doors; louvre doors or windows E06B 7/08)}	2009/155	• {Slats connected by separate elements}
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)	2009/1555	• {Flexible elements, e.g. tapes, strips, cords or chains}
9/0607	• . . {comprising a plurality of similar rigid closing elements movable to a storage position}	2009/1561	• {Strips}
9/0615	• {characterised by the closing elements}	2009/1566	• {Rigid elements, e.g. hinges, hooks or profiles}
9/0623	• {Grilles}	2009/1572	• {Locking means to prevent slat disengagement}
9/063	• {Bars or rods perpendicular to the closing direction}	2009/1577	• {Slat end pieces used for guiding shutter}
9/0638	• {Slats or panels}	2009/1583	• {inserted in slat cavity}
9/0646	• {characterised by the relative arrangement of the closing elements in the stored position}	2009/1588	• {inserted in engaging section of adjacent slats}
9/0653	• {stored side by side in the closing plane}	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	9/302	. . . . .	without ladder-tape, e.g. with lazy-tongs, with screw spindle
2009/1713	. . . . .	{ Telescopic rollers }	9/303	. . . . .	with ladder-tape
2009/1716	. . . . .	{ Arrangements to improve rolling of the shutter on the roller }	9/304	. . . . .	with tilting bar and separate raising shaft
9/172	. . . . .	by clamping bars	9/305	. . . . .	with tilting bar and raising cords guided along fixed bar
9/173	. . . . .	by clasps or buttons	9/306	. . . . .	with tilting bar along which the raising cords are guided
9/174	. . . . .	Bearings specially adapted therefor	9/307	. . . . .	Details of tilting bars and their operation
2009/1743	. . . . .	{ allowing radial roller movement }	9/308	. . . . .	with coaxial tilting bar and raising shaft
2009/1746	. . . . .	{ Axial connection of rollers }	9/32	. . . . .	Operating, guiding, or securing devices therefor (operation of tilting bars E06B 9/307)
9/18	. . .	Roll-type grilles	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)
9/24	. . .	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)	2009/3222	. . . . .	{ Cordless, i.e. user interface without cords }
2009/2405	. . .	{ Areas of differing opacity for light transmission control }	2009/3225	. . . . .	{ Arrangements to aid the winding of cords rollers }
2009/2411	. . .	{ Coloured fluid flow for light transmission control }	2009/3227	. . . . .	{ Axially moving rollers }
2009/2417	. . .	{ Light path control; means to control reflection }	9/323	. . . . .	Structure or support of upper box
2009/2423	. . .	{ Combinations of at least two screens }	9/324	. . . . .	Cord-locks (cord-locks for curtains A47H 3/00)
2009/2429	. . .	{ One vertical sheet and slats }	9/325	. . . . .	Immobilising devices preventing raising
2009/2435	. . .	{ Two vertical sheets and slats in-between }	9/326	. . . . .	Details of cords, e.g. buckles, drawing knobs
2009/2441	. . .	{ Screens joined one below the other }	2009/3265	. . . . .	{ Emergency release to prevent strangulation or excessive load }
2009/2447	. . .	{ Parallel screens }	9/327	. . . . .	Guides for raisable lamellar blinds with horizontal lamellae
2009/2452	. . . . .	{ moving independently }	9/34	. . . . .	roller-type; { Roller shutters with adjustable lamellae }
2009/2458	. . . . .	{ moving simultaneously }	9/36	. . . . .	with vertical lamellae; { Supporting rails therefor }
2009/2464	. . .	{ featuring transparency control by applying voltage, e.g. LCD, electrochromic panels }	9/361	. . . . .	{ Transmissions located at the end of the supporting rail }
2009/247	. . .	{ Electrically powered illumination }	9/362	. . . . .	{ Travellers; Lamellae suspension stems }
2009/2476	. . .	{ Solar cells }	9/364	. . . . .	{ Operating mechanisms therein }
2009/2482	. . .	{ Special shape }	9/365	. . . . .	{ Distance pieces therefor }
2009/2488	. . .	{ Curved perimeter }	9/367	. . . . .	{ Lamellae suspensions (E06B 9/362 takes precedence); Bottom weights; Bottom guides }
2009/2494	. . .	{ Trapezoidal or triangular }	9/368	. . . . .	{ Driving means other than pulling cords }
9/26	. . .	Lamellar or like blinds, e.g. venetian blinds (for vehicles B60J 1/2088)	9/38	. . .	Other details
9/262	. . .	with flexibly-interconnected horizontal or vertical strips; Concertina blinds {, i.e. upwardly folding flexible screens }	9/382	. . . . .	Details of ladder-tapes or ladder chains, e.g. buckles for local shortening of tapes
2009/2622	. . . . .	{ Gathered vertically; Roman, Austrian or festoon blinds }	9/384	. . . . .	Details of interconnection or interaction of tapes and lamellae
2009/2625	. . . . .	{ Pleated screens, e.g. concertina- or accordion-like }	9/386	. . . . .	Details of lamellae
2009/2627	. . . . .	{ Cellular screens, e.g. box or honeycomb-like }	9/388	. . . . .	Details of bottom or upper slats or their attachment
9/264	. . .	Combinations of lamellar blinds with roller shutters, screen windows, windows, or double panes; Lamellar blinds with special devices	9/40	. . .	Roller blinds (usable only as awnings E04F 10/06)
2009/2643	. . . . .	{ Screens between double windows }	2009/402	. . . . .	{ adjustable without the use of tools or cutting instruments }
2009/2646	. . . . .	{ Magnetic screen operator }	2009/405	. . . . .	{ Two rollers }
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)	2009/407	. . . . .	{ Telescopic roller }
9/28	. . .	with horizontal lamellae, e.g. non-liftable (louvre windows or gratings E06B 7/08)			
2009/285	. . . . .	{ Means for actuating a rod (being tilt rod or lift rod) }			
9/30	. . . . .	liftable			

- 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 3/002](#); 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](#)})

E06B

11/085 . . {non-rotary or with a limited angle of rotation,
e.g. 90°}