

CPC COOPERATIVE PATENT CLASSIFICATION

E FIXED CONSTRUCTIONS

BUILDING

E05 LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES

(NOTE omitted)

E05D HINGES OR SUSPENSION DEVICES FOR DOORS, WINDOWS OR WINGS ([pivotal connections in general F16C 11/00](#))

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	Pinless hinges; Substitutes for hinges	5/0207	. . {for attachment to vehicles (E05D 5/043 , E05D 5/062 take precedence)}
1/02	. made of one piece	5/0215	. . {for attachment to profile members or the like}
1/04	. with guide members shaped as circular arcs	5/0223	. . . {with parts, e.g. screws, extending through the profile wall or engaging profile grooves}
2001/045	. . {for telescopic hinges}	5/023	. . . . {with parts extending through the profile wall}
1/06	. consisting of two easily-separable parts	5/0238	. . . . {with parts engaging profile grooves}
3/00	Hinges with pins (E05D 7/08 takes precedence)	5/0246	. . {for attachment to glass panels}
3/02	. with one pin	2005/0253	. . . {the panels having conical or stepped recesses}
3/022	. . {allowing an additional lateral movement, e.g. for sealing}	2005/0261	. . . {connecting two or more glass panels}
2003/025	. . {having three knuckles}	2005/0269	. . . . {the panels being coplanar}
2003/027	. . . {the end knuckles being mutually connected}	5/0276	. . {for attachment to cabinets or furniture, the hinge having two or more pins (E05D 5/046 , E05D 5/065 , E05D 7/125 take precedence)}
3/04	. . engaging three or more parts, e.g. sleeves, movable relatively to one another for connecting two or more wings to another member	2005/0284	. . {for embedding in concrete or masonry}
3/06	. with two or more pins (E05D 7/08 takes precedence)	2005/0292	. . {for passing through insulating layers}
3/08	. . for swing-doors, i.e. openable by pushing from either side	5/04	. Flat flaps
3/10	. . with non-parallel pins	5/043	. . . {specially adapted for vehicles}
3/12	. . with two parallel pins and one arm	5/046	. . . {specially adapted for cabinets or furniture}
3/122	. . . {Gear hinges}	5/06	. Bent flaps
3/125	. . . {specially adapted for vehicles}	5/062	. . . {specially adapted for vehicles}
3/127	. . . . {for vehicle doors}	5/065	. . . {specially adapted for cabinets or furniture}
3/14	. . with four parallel pins and two arms	2005/067	. . . {gooseneck shaped}
3/142	. . . {with at least one of the hinge parts having a cup-shaped fixing part, e.g. for attachment to cabinets or furniture (E05D 11/1021 takes precedence)}	5/08	. of cylindrical shape
3/145	. . . {specially adapted for vehicles}	5/10	. Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence)
3/147	. . . . {for vehicle doors}	2005/102	. . {Pins}
3/16	. . with seven parallel pins and four arms	2005/104	. . . {characterised by the materials}
2003/163	. . . {Horizontal pivot-axis}	2005/106	. . . {with non-cylindrical portions}
2003/166	. . . {Vertical pivot-axis}	2005/108	. . . {with elastically deformable parts}
3/18	. . with sliding pins or guides	5/12	. . Securing pins in sockets, movably or not
3/183	. . . {with at least one of the hinge parts having a cup-shaped fixing part, e.g. for attachment to cabinets or furniture}	5/121	. . . {Screw-threaded pins}
3/186	. . . {Scissors hinges, with two crossing levers and five parallel pins}	2005/122	. . . . {externally threaded}
5/00	Construction of single parts, e.g. the parts for attachment	2005/124	. . . . {internally threaded}
5/02	. Parts for attachment, e.g. flaps	5/125	. . . {Non-removable, snap-fitted pins (removable snap-fitted pins E05D 7/1022 , E05D 7/1055)}
		5/127	. . . {by forcing the pin into the socket (E05D 5/125 takes precedence)}
		5/128	. . . {the pin having a recess or through-hole engaged by a securing member}
		5/14	. . Construction of sockets or sleeves
		2005/145	. . . {with elastically deformable parts}

5/16	. . . to be secured without special attachment parts on the socket or sleeve	2007/1038	. . . {by axially moving free sockets}
7/00	Hinges or pivots of special construction (used for special suspension arrangements E05D 15/00 ; so as to be self-closing E05F 1/06 , E05F 1/12 ; with means for raising wings before being turned E05F 7/02)	7/1044	. . {in an axial direction (E05D 7/1005 takes precedence)}
7/0009	. {Adjustable hinges (E05D 7/04 takes precedence)}	7/105	. . . {requiring a specific angular position}
7/0018	. . {at the hinge axis}	7/1055	. . . {with snap-fitted pins}
7/0027	. . . {in an axial direction}	7/1061	. . {in a radial direction (E05D 7/1005 takes precedence)}
2007/0036	. . . . {with axially fixed hinge pins}	7/1066	. . . {requiring a specific angular position}
7/0045	. . . {in a radial direction}	7/1072	. . . . {the pin having a non-circular cross-section}
7/0054	. . . . {by means of eccentric parts}	7/1077	. . . {with snap-fitted pins}
2007/0063	. . . . . {Eccentric hinge pins}	7/1083	. . {facilitating simultaneous assembly of a plurality of hinges, e.g. for mounting heavy wings}
2007/0072	. . . . {with sliding sleeves}	2007/1088	. . . {using hinge pins having different lengths}
2007/0081	. . . . {with swinging or rolling sleeves}	2007/1094	. . {Guiding devices therefor}
7/009	. {Elongate hinges, e.g. piano-hinges}	7/12	. to allow easy detachment of the hinge from the wing or the frame ({ E05D 15/507 takes precedence})
7/02	. for use on the right-hand as well as the left-hand side; Convertible right-hand or left-hand hinges	7/121	. . {specially adapted for vehicles}
7/04	. Hinges adjustable relative to the wing or the frame	7/123	. . {specially adapted for cabinets or furniture}
7/0407	. . {the hinges having two or more pins and being specially adapted for cabinets or furniture}	7/125	. . . {the hinge having two or more pins}
7/0415	. . {with adjusting drive means}	2007/126	. . {in an axial direction}
7/0423	. . . {Screw-and-nut mechanisms (E05D 7/0407 , E05D 7/043 take precedence)}	2007/128	. . {in a radial direction}
7/043	. . {by means of dowel attachments}	7/14	. Hinges for safes
2007/0438	. . . {with bolts fixedly mounted on the hinge part}	9/00	Flaps or sleeves specially designed for making from particular material, e.g. hoop-iron, sheet metal, plastics
2007/0446	. . . {with threaded bolts fixedly mounted on the hinge part}	9/005	. {from plastics (E05D 1/02 takes precedence)}
2007/0453	. . . {with threaded sleeves}	11/00	Additional features or accessories of hinges {(edge protecting devices E06B 3/88)}
2007/0461	. . {in angular arrangement to the wing or the frame}	11/0009	. {Templates for marking the position of fittings on wings or frames (implements for making doors, windows or frames E04F 21/003)}
2007/0469	. . {in an axial direction}	11/0018	. {Anti-tamper devices}
2007/0476	. . {Pocket hinges}	11/0027	. . {arranged on or near the hinge and comprising parts interlocking as the wing closes, e.g. security studs}
2007/0484	. . {in a radial direction}	2011/0036	. . . {near the hinge}
2007/0492	. . {in three directions}	2011/0045	. . . {on the hinge}
7/06	. to allow tilting of the members	11/0054	. {Covers, e.g. for protection}
7/08	. for use in suspensions comprising two spigots placed at opposite edges of the wing, especially at the top and the bottom, e.g. trunnions ({ E05D 15/266 takes precedence})	2011/0063	. . {for screw-heads or bolt-heads}
7/081	. . the pivot axis of the wing being situated near one edge of the wing, especially at the top and bottom, e.g. trunnions	2011/0072	. . {for the gap between hinge parts}
7/082	. . the pivot axis of the wing being situated at a considerable distance from the edges of the wing {, e.g. for balanced wings}	11/0081	. {for transmitting energy, e.g. electrical cable routing}
7/083	. . . with a fixed pivot axis	2011/009	. {Impact absorbing hinges for vehicle doors}
7/084	. . . with a movable pivot axis	11/02	. Lubricating arrangements
7/085	. . . . with two or more pivot axes, e.g. used at the same time	11/04	. relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence)
7/086	. . . Braking devices structurally combined with hinges (braking devices for windows per se E05F 5/00)	2011/045	. . {located in line with the hinge axis}
7/10	. to allow easy separation {or connection} of the parts at the hinge axis ({ E05D 5/12 and E05D 15/50 take precedence} ; substitutes for hinges E05D 1/06)	11/06	. Devices for limiting the opening movement of hinges
7/1005	. . {by axially moving free pins, balls or sockets}	11/08	. Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence)
7/1011	. . . {biased by free springs (E05D 7/1016 takes precedence)}	11/081	. . {with both radial and axial friction, e.g. conical friction surfaces}
7/1016	. . . {requiring a specific angular position}	11/082	. . {with substantially radial friction, e.g. cylindrical friction surfaces}
7/1022	. . . {with snap-fitted pins}	11/084	. . . {the friction depending on direction of rotation or opening angle of the hinge}
2007/1027	. . . {by axially moving free pins}	2011/085	. . . {the friction depending on the opening angle}
2007/1033	. . . {by axially moving free balls}	11/087	. . {with substantially axial friction, e.g. friction disks}
		2011/088	. . {with automatic disengagement}

11/10	. Devices for preventing movement between relatively-movable hinge parts	15/02	. for revolving wings
11/1007	. . {with positive locking}	15/04	. with arms fixed on the wing pivoting about an axis outside of the wing
11/1014	. . {for maintaining the hinge in only one position, e.g. closed}	15/06	. for wings sliding horizontally more or less in their own plane
11/1021	. . . {the hinge having two or more pins and being specially adapted for cabinets or furniture}	15/0604	. . {allowing an additional movement (E05D 15/10 takes precedence; raising wings before sliding E05D 15/565)}
11/1028	. . {for maintaining the hinge in two or more positions, e.g. intermediate or fully open}	15/0608	. . . {caused by track lay-out}
2011/1035	. . . {with circumferential and evenly distributed detents around the pivot-axis}	15/0613	. . . . {with multi-directional trolleys}
11/1042	. . . {the maintaining means being a cam and a torsion bar, e.g. motor vehicle hinge mechanisms}	15/0617	. . {of cantilever type}
11/105	. . . {the maintaining means acting perpendicularly to the pivot axis}	15/0621	. . {Details, e.g. suspension or supporting guides (E05D 15/0604 , E05D 15/08 - E05D 15/14 take precedence)}
11/1057	. . . . {specially adapted for vehicles (E05D 11/1064 takes precedence)}	15/0626	. . . . {for wings suspended at the top}
11/1064	. . . . {with a coil spring perpendicular to the pivot axis}	15/063	. . . . . {on wheels with fixed axis}
11/1071	. . . . . {specially adapted for vehicles}	15/0634	. . . . . {with height adjustment}
11/1078	. . . {the maintaining means acting parallel to the pivot}	15/0639	. . . . . {by vertical bolts}
11/1085	. . . . {specially adapted for vehicles}	15/0643	. . . . . {on balls or floating rollers}
2011/1092	. . {the angle between the hinge parts being adjustable}	15/0647	. . . . . {on sliding blocks}
13/00	Accessories for sliding or lifting wings, e.g. pulleys, safety catches ({closers or openers for horizontally sliding wings E05F 1/02 , E05F 1/08 }; counterbalance devices {for swinging wings} E05F 1/00 , E05F 3/00)	15/0652	. . . . . {Tracks (E05D 15/063 - E05D 15/0647 and E05D 15/0656 take precedence)}
13/003	. {Anti-dropping devices (E05D 13/1223 , E05D 13/1246 , E05D 13/1269 , E05D 13/1292 take precedence)}	15/0656	. . . . . {Bottom guides}
13/006	. . {fixed to the wing, i.e. safety catches}	15/066	. . . {for wings supported at the bottom}
13/04	. {Fasteners specially adapted for holding sliding wings open (for holding wings closed E05C)}	15/0665	. . . . . {on wheels with fixed axis}
13/06	. . {with notches for vertically sliding wings}	15/0669	. . . . . {with height adjustment}
13/08	. . {acting by friction for vertically sliding wings}	15/0673	. . . . . {by vertical bolts}
13/10	. {Counterbalance devices}	15/0678	. . . . . {on balls or floating rollers}
13/12	. . {with springs}	15/0682	. . . . . {on sliding blocks}
13/1207	. . . {with tension springs}	15/0686	. . . . . {Tracks (E05D 15/0665 - E05D 15/0682 and E05D 15/0691 take precedence)}
13/1215	. . . . {specially adapted for overhead wings (E05D 13/1223 takes precedence)}	15/0691	. . . . . {Top guides}
13/1223	. . . . . {Spring safety devices}	2015/0695	. . . . {Magnetic suspension or supporting means}
13/123	. . . {with compression springs}	15/08	. . consisting of two or more independent parts movable each in its own guides
13/1238	. . . . {specially adapted for overhead wings (E05D 13/1246 takes precedence)}	15/10	. . movable out of one plane into a second parallel plane
13/1246	. . . . . {Spring safety devices}	15/1002	. . . {specially adapted for use in railway-cars or mass transit vehicles (E05D 15/1007 , E05D 15/1023 , E05D 15/1044 , E05D 15/1068 take precedence)}
13/1253	. . . {with canted-coil torsion springs}	15/1005	. . . {the wing being supported on arms movable in horizontal planes}
13/1261	. . . . {specially adapted for overhead wings (E05D 13/1269 takes precedence)}	15/1007	. . . . {specially adapted for use in railway-cars or mass transit vehicles}
13/1269	. . . . . {Spring safety devices}	15/101	. . . . {specially adapted for vehicles (E05D 15/1007 takes precedence)}
13/1276	. . . {with coiled ribbon springs, e.g. constant force springs (E05D 13/1253 takes precedence)}	15/1013	. . . . . {specially adapted for windows}
13/1284	. . . . {specially adapted for overhead wings (E05D 13/1292 takes precedence)}	15/1015	. . . . . {with an intermediate tilt position}
13/1292	. . . . . {Spring safety devices}	2015/1018	. . . {with the track rotating around its axis}
13/14	. . {with weights}	15/1021	. . . {involving movement in a third direction, e.g. vertically}
13/145	. . . {specially adapted for overhead wings}	15/1023	. . . . {specially adapted for use in railway-cars or mass transit vehicles}
15/00	Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means E06B 3/32)	2015/1026	. . . {accessories, e.g. sliding or rolling guides, latches}
		2015/1028	. . . {with only the wing moving transversely}
		2015/1031	. . . . {the wing supported on arms extending from the carriage}
		2015/1034	. . . . . {the carriage having means for preventing rotation of the wing}
		2015/1036	. . . . . {the arms being movable in vertical, e.g. transverse, planes}

2015/1039	. . . . {the wing sliding transversely on the carriage}	15/266	. . . {comprising two pivots placed at opposite edges of the wing}
15/1042	. . . {with transversely moving carriage (E05D 15/1065 takes precedence)}	2015/268	. . {the wings being successively folded}
15/1044	. . . . {specially adapted for use in railway-cars or mass transit vehicles}	15/28	. supported on arms movable in horizontal plane
15/1047	. . . . {specially adapted for vehicles (E05D 15/1044 takes precedence)}	15/30	. . with pivoted arms and sliding guides
2015/1049	. . . . {the carriage swinging or rotating in a transverse plane}	15/32	. . with two pairs of pivoted arms
2015/1052	. . . . {transversely over-dimensioned track sections or carriage}	15/34	. . . with wings opening parallel to themselves
2015/1055	. . . . {with slanted or curved track sections or cams}	15/36	. moving along slide-ways so arranged that one guide-member of the wing moves in a direction substantially perpendicular to the movement of another guide member
2015/1057	. . . . . {the carriage swinging or rotating in those track sections}	15/38	. . for upwardly-moving wings, e.g. up-and-over doors
2015/106	. . . . {transversely orientated track sections}	15/40	. supported on arms movable in vertical planes
2015/1063	. . . . {disconnecting the carriage from the track}	15/401	. . {specially adapted for overhead wings (E05D 15/403 - E05D 15/46 take precedence)}
15/1065	. . . {with transversely moving track}	15/403	. . {with arms fixed on the wing pivoting about an axis outside the wing}
15/1068	. . . . {specially adapted for use in railway-cars or mass transit vehicles}	15/405	. . {with curved arms fixed on the wing, rolling on a support}
2015/1071	. . . . {the track being directly linked to the fixed frame, e.g. slidingly}	15/406	. . {with pivoted arms and sliding guides (E05D 15/42 , E05D 15/44 take precedence)}
2015/1073	. . . . . {rocking transversely}	15/408	. . . {with sliding guides fixed to the wing}
2015/1076	. . . . . {swinging transversely, e.g. on arms}	15/42	. . with pivoted arms and horizontally-sliding guides
2015/1078	. . . . . {swinging or rotating in a horizontal plane}	15/425	. . . {specially adapted for overhead wings}
15/1081	. . . . {specially adapted for vehicles (E05D 15/1068 takes precedence)}	15/44	. . with pivoted arms and vertically-sliding guides
2015/1084	. . . . {the carriage being directly linked to the fixed frame, e.g. slidingly}	15/445	. . . {specially adapted for overhead wings}
2015/1086	. . . . . {swingingly, e.g. on arms}	15/46	. . with two pairs of pivoted arms
2015/1089	. . . . . {the carriage having means for preventing rotation of the wing}	15/463	. . . {specially adapted for overhead wings}
2015/1092	. . . . . {the carriage swinging or rotating in curved track sections}	15/466	. . . {specially adapted for windows}
2015/1094	. . . . . {disconnecting itself from the track}	15/48	. allowing alternative movements (E05D 15/0604 takes precedence) ; for vertically-sliding wings E05D 15/22)
2015/1097	. . . . {with the carriage and track forming a telescopic element}	2015/482	. . {for panic doors}
15/12	. . consisting of parts connected at their edges	2015/485	. . {Swinging or sliding movements}
15/14	. . with movable arms situated in the plane of the wing	2015/487	. . {Tilting or swinging movements}
15/16	. for wings sliding vertically more or less in their own plane	15/50	. . for opening at either of two opposite edges (hinges or pivots of special construction to allow easy separation or connection of the parts at the hinge axis E05D 7/10 ; to allow easy detachment of the hinge from the wing or the frame E05D 7/12)
15/165	. . {Details, e.g. sliding or rolling guides (E05D 15/18 - E05D 15/24 take precedence)}	15/502	. . . {by axial separation of the hinge parts at the hinge axis}
15/18	. . consisting of two or more independent parts, movable each in its own guides	15/505	. . . {by radial separation of the hinge parts at the hinge axis}
15/20	. . movable out of one plane into a second parallel plane	15/507	. . . {by detachment of the hinge from the wing or the frame}
15/22	. . allowing an additional movement (E05D 15/20 takes precedence)}	15/52	. . for opening about a vertical as well as a horizontal axis
2015/225	. . . {specially adapted for overhead wings}	15/5202	. . . {with non-horizontally extending checks}
15/24	. . consisting of parts connected at their edges	15/5205	. . . {with horizontally-extending checks}
15/242	. . . {Hinge connections between the parts}	15/5208	. . . {with means for transmitting movements between vertical and horizontal sliding bars, rods or cables}
15/244	. . . {Upper part guiding means}	15/5211	. . . {Concealed suspension fittings}
15/246	. . . . {with additional guide rail for producing an additional movement}	15/5214	. . . {Corner supports}
15/248	. . . . {with lever arms for producing an additional movement}	15/5217	. . . {Tilt-lock devices}
15/26	. for folding wings	15/522	. . . with disconnecting means for the appropriate pivoting parts
15/262	. . {folding vertically}	15/523	. . . . using movable rods
15/264	. . {for bi-fold wings}	15/524	. . . . . Actuating mechanisms

E05D

- 15/526 . . . Safety devices { ([E05D 15/5217](#) takes precedence)}
- 2015/5263 {acting parallel to the plane of the wing}
- 2015/5266 {acting perpendicular to the plane of the wing}
- 15/54 . . for opening both inwards and outwards
- 15/56 . with successive different movements {([raising wings before being turned E05F 7/02](#))}
- 15/565 . . {for raising wings before sliding}
- 15/58 . . with both swinging and sliding movements
- 15/581 . . . {the swinging axis laying in the sliding direction ([E05D 15/1015](#) takes precedence)}
- 15/582 . . . {with horizontal swinging axis ([E05D 15/581](#) takes precedence)}
- 15/583 {specially adapted for overhead wings}
- 2015/585 . . . {with stationary hinge parts}
- 2015/586 . . . {with travelling hinge parts}
- 2015/587 . . . {with axially separating hinge parts}
- 2015/588 . . . {with radially separating hinge parts}
- 2700/00 Hinges or other suspension devices especially for doors or windows**
- 2700/02 . Hinges with one pivot axis and one bearing surface
- 2700/04 . Hinges with one pivot axis and more than one bearing surface
- 2700/10 . Various door and window fittings, e.g. suspension devices for double hung windows or screens
- 2700/12 . Suspension devices for doors or windows movable in a direction perpendicular to their plane or pivotable about an axis being situated at a considerable distance from the edge of the wing by means of pivot arms