CPC COOPERATIVE PATENT CLASSIFICATION

E FIXED CONSTRUCTIONS

BUILDING

E05 LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES

(NOTE omitted)

E05D HINGES OR OTHER SUSPENSION DEVICES FOR DOORS, WINDOWS OR WINGS

({foldable tables A47B 3/00; hinged panels A47B 5/00; foldable chairs A47C 4/00; making hinges B21D 53/40, B21K 13/02; making holes for taking-up fittings B27F 5/12; for vehicle tailboards B60P 1/26; for refuse receptacles B65F 1/1646} ; pivotal connections in general F16C 11/00 {; mounting of stove or range doors F24C 15/023; for folding flat displays of portable computers G06F 1/1616})

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

E05D 5/16	covered by	E05D 5/14
E05D 7/081	covered by	E05D 7/08
E05D 7/083	covered by	E05D 7/082
E05D 15/04	covered by	E05D 15/02, E05D 15/28, E05D 15/403
E05D 15/522	covered by	E05D 15/52
E05D 15/523	covered by	E05D 15/52
E05D 15/524	covered by	E05D 15/52

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

1/00 **Pinless hinges; Substitutes for hinges**
1/02 . made of one piece
1/04 . with guide members shaped as circular arcs
2001/045 . . {for telescopic hinges}
1/06 . consisting of two easily-separable parts

3/00 **Hinges with pins {(E05D 7/08 takes precedence)}**
3/02 . with one pin
3/022 . . {allowing an additional lateral movement, e.g. for sealing}
2003/025 . . {having three knuckles}
2003/027 . . . {the end knuckles being mutually connected}
3/04 . . engaging three or more parts, e.g. sleeves, movable relatively to one another for connecting two or more wings to another member
3/06 . with two or more pins (E05D 7/08 takes precedence)
3/08 . . for swing-doors, i.e. openable by pushing from either side
3/10 . . with non-parallel pins
3/12 . . with two parallel pins and one arm
3/122 . . . {Gear hinges}
3/125 . . . {specially adapted for vehicles}
3/127 . . . . {for vehicle doors}
3/14 . . with four parallel pins and two arms
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)}
3/145 . . . {specially adapted for vehicles}
3/147 . . . . {for vehicle doors}
3/16 . . with seven parallel pins and four arms
2003/163 . . . {Horizontal pivot-axis}
2003/166 . . . {Vertical pivot-axis}
3/18 . . with sliding pins or guides
3/183 . . . {with at least one of the hinge parts having a cup-shaped fixing part, e.g. for attachment to cabinets or furniture}
3/186 . . . {Scissors hinges, with two crossing levers and five parallel pins}

5/00 **Construction of single parts, e.g. the parts for attachment**
5/02 . Parts for attachment, e.g. flaps
5/0207 . . {for attachment to vehicles (E05D 5/043, E05D 5/062 take precedence)}
5/0215 . . {for attachment to profile members or the like}
5/0223 . . . {with parts, e.g. screws, extending through the profile wall or engaging profile grooves}
5/023 . . . . {with parts extending through the profile wall}
5/0238 . . . . {with parts engaging profile grooves}
5/0246 . . {for attachment to glass panels}
2005/0253 . . . {the panels having conical or stepped recesses}
2005/0261 . . . {connecting two or more glass panels}
2005/0269 . . . . {the panels being coplanar}
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)}
2005/0284 . . {for embedding in concrete or masonry}

2005/0292 . . {for passing through insulating layers}
5/04 . . Flat flaps
5/043 . . . {specially adapted for vehicles}
5/046 . . . {specially adapted for cabinets or furniture}
5/06 . . Bent flaps
5/062 . . . {specially adapted for vehicles}
5/065 . . . {specially adapted for cabinets or furniture}
2005/067 . . . {gooseneck shaped}
5/08 . . of cylindrical shape
5/10 . Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence)
2005/102 . . {Pins}
2005/104 . . . {characterised by the materials}
2005/106 . . . {with non-cylindrical portions}
2005/108 . . . {with elastically deformable parts}
5/12 . . Securing pins in sockets, movably or not
5/121 . . . {Screw-threaded pins}
2005/122 . . . . {externally threaded}
2005/124 . . . . {internally threaded}
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

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)
7/0009 . {Adjustable hinges (E05D 7/04 takes precedence)}
7/0018 . . {at the hinge axis}
7/0027 . . . {in an axial direction}
2007/0036 . . . . {with axially fixed hinge pins}
7/0045 . . . {in a radial direction}
7/0054 . . . . {by means of eccentric parts}
2007/0063 . . . . . {Eccentric hinge pins}
2007/0072 . . . . {with sliding sleeves}
2007/0081 . . . . {with swinging or rolling sleeves}
7/009 . {Elongate hinges, e.g. piano-hinges}
7/02 . for use on the right-hand as well as the left-hand side; Convertible right-hand or left-hand hinges
7/04 . Hinges adjustable relative to the wing or the frame
7/0407 . . {the hinges having two or more pins and being specially adapted for cabinets or furniture}
7/0415 . . {with adjusting drive means}
7/0423 . . . {Screw-and-nut mechanisms (E05D 7/0407, E05D 7/043 take precedence)}
7/043 . . {by means of dowel attachments}
2007/0438 . . . {with bolts fixedly mounted on the hinge part}
2007/0446 . . . {with threaded bolts fixedly mounted on the hinge part}
2007/0453 . . . {with threaded sleeves}
2007/0461 . . {in angular arrangement to the wing or the frame}
2007/0469 . . {in an axial direction}
2007/0476 . . {Pocket hinges}
2007/0484 . . {in a radial direction}
2007/0492 . . {in three directions}
7/06 . to allow tilting of the members
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)}
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
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}
7/083 . . . with a fixed pivot axis
7/084 . . . with a movable pivot axis
7/085 . . . . with two or more pivot axes, e.g. used at the same time
7/086 . . . Braking devices structurally combined with hinges (braking devices for windows per se E05F 5/00)
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)
7/1005 . . {by axially moving free pins, balls or sockets}
7/1011 . . . {biased by free springs (E05D 7/1016 takes precedence)}
7/1016 . . . {requiring a specific angular position}
7/1022 . . . {with snap-fitted pins}
2007/1027 . . . {by axially moving free pins}
2007/1033 . . . {by axially moving free balls}
2007/1038 . . . {by axially moving free sockets}
7/1044 . . {in an axial direction (E05D 7/1005 takes precedence)}
7/105 . . . {requiring a specific angular position}
7/1055 . . . {with snap-fitted pins}
7/1061 . . {in a radial direction (E05D 7/1005 takes precedence)}
7/1066 . . . {requiring a specific angular position}
7/1072 . . . . {the pin having a non-circular cross-section}
7/1077 . . . {with snap-fitted pins}
7/1083 . . {facilitating simultaneous assembly of a plurality of hinges, e.g. for mounting heavy wings}
2007/1088 . . . {using hinge pins having different lengths}
2007/1094 . . {Guiding devices therefor}
7/12 . to allow easy detachment of the hinge from the wing or the frame {(E05D 15/507 takes precedence)}
7/121 . . {specially adapted for vehicles}
7/123 . . {specially adapted for cabinets or furniture}
7/125 . . . {the hinge having two or more pins}
2007/126 . . {in an axial direction}
2007/128 . . {in a radial direction}
7/14 . Hinges for safes

9/00 **Flaps or sleeves specially designed for making from particular material, e.g. hoop-iron, sheet metal, plastics**
9/005 . {from plastics (E05D 1/02 takes precedence)}

11/00 **Additional features or accessories of hinges {**(edge protecting devices E06B 3/88)**}**
11/0009 . {Templates for marking the position of fittings on wings or frames (implements for making doors, windows or frames E04F 21/003)}
11/0018 . {Anti-tamper devices}
11/0027 . . {arranged on or near the hinge and comprising parts interlocking as the wing closes, e.g. security studs}

2011/0036 . . . {near the hinge}
2011/0045 . . . {on the hinge}
11/0054 . {Covers, e.g. for protection}
2011/0063 . . {for screw-heads or bolt-heads}
2011/0072 . . {for the gap between hinge parts}
11/0081 . {for transmitting energy, e.g. electrical cable routing}
2011/009 . {Impact absorbing hinges for vehicle doors}
11/02 . Lubricating arrangements
11/04 . relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence)
2011/045 . . {located in line with the hinge axis}
11/06 . Devices for limiting the opening movement of hinges
11/08 . Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence)
11/081 . . {with both radial and axial friction, e.g. conical friction surfaces}
11/082 . . {with substantially radial friction, e.g. cylindrical friction surfaces}
11/084 . . . {the friction depending on direction of rotation or opening angle of the hinge}
2011/085 . . . {the friction depending on the opening angle}
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
11/1007 . . {with positive locking}
11/1014 . . {for maintaining the hinge in only one position, e.g. closed}
11/1021 . . . {the hinge having two or more pins and being specially adapted for cabinets or furniture}
11/1028 . . {for maintaining the hinge in two or more positions, e.g. intermediate or fully open}
2011/1035 . . . {with circumferential and evenly distributed detents around the pivot-axis}
11/1042 . . . {the maintaining means being a cam and a torsion bar, e.g. motor vehicle hinge mechanisms}
11/105 . . . {the maintaining means acting perpendicularly to the pivot axis}
11/1057 . . . . {specially adapted for vehicles (E05D 11/1064 takes precedence)}
11/1064 . . . . {with a coil spring perpendicular to the pivot axis}
11/1071 . . . . . {specially adapted for vehicles}
11/1078 . . . {the maintaining means acting parallel to the pivot}
11/1085 . . . . {specially adapted for vehicles}
2011/1092 . . {the angle between the hinge parts being adjustable}

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)

13/003 . {Anti-dropping devices (E05D 13/1223, E05D 13/1246, E05D 13/1269, E05D 13/1292 take precedence)}
13/006 . . {fixed to the wing, i.e. safety catches}
13/04 . {Fasteners specially adapted for holding sliding wings open (for holding wings closed E05C)}
13/06 . . {with notches for vertically sliding wings}
13/08 . . {acting by friction for vertically sliding wings}
13/10 . {Counterbalance devices}
13/12 . . {with springs}
13/1207 . . . {with tension springs}
13/1215 . . . . {specially adapted for overhead wings (E05D 13/1223 takes precedence)}
13/1223 . . . . {Spring safety devices}
13/123 . . . {with compression springs}
13/1238 . . . . {specially adapted for overhead wings (E05D 13/1246 takes precedence)}
13/1246 . . . . {Spring safety devices}
13/1253 . . . {with canted-coil torsion springs}
13/1261 . . . . {specially adapted for overhead wings (E05D 13/1269 takes precedence)}
13/1269 . . . . {Spring safety devices}
13/1276 . . . {with coiled ribbon springs, e.g. constant force springs (E05D 13/1253 takes precedence)}
13/1284 . . . . {specially adapted for overhead wings (E05D 13/1292 takes precedence)}
13/1292 . . . . {Spring safety devices}
13/14 . . {with weights}
13/145 . . . {specially adapted for overhead wings}

15/00 Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means E06B 3/32)

15/02 . for revolving wings
15/04 . with arms fixed on the wing pivoting about an axis outside of the wing
15/06 . for wings sliding horizontally more or less in their own plane
15/0604 . . {allowing an additional movement (E05D 15/10 takes precedence; raising wings before sliding E05D 15/565)}
15/0608 . . . {caused by track lay-out}
15/0613 . . . . {with multi-directional trolleys}
15/0617 . . {of cantilever type}
15/0621 . . {Details, e.g. suspension or supporting guides (E05D 15/0604, E05D 15/08 - E05D 15/14 take precedence)}
15/0626 . . . {for wings suspended at the top}
15/063 . . . . {on wheels with fixed axis}
15/0634 . . . . . {with height adjustment}
15/0639 . . . . . {by vertical bolts}
15/0643 . . . . {on balls or floating rollers}
15/0647 . . . . {on sliding blocks}
15/0652 . . . . {Tracks (E05D 15/063 - E05D 15/0647 and E05D 15/0656 take precedence)}
15/0656 . . . . {Bottom guides}
15/066 . . . {for wings supported at the bottom}
15/0665 . . . . {on wheels with fixed axis}
15/0669 . . . . . {with height adjustment}
15/0673 . . . . . {by vertical bolts}
15/0678 . . . . {on balls or floating rollers}
15/0682 . . . . {on sliding blocks}
15/0686 . . . . {Tracks (E05D 15/0665 - E05D 15/0682 and E05D 15/0691 take precedence)}
15/0691 . . . . {Top guides}
2015/0695 . . . {Magnetic suspension or supporting means}
15/08 . . consisting of two or more independent parts movable each in its own guides
15/10 . . movable out of one plane into a second parallel plane

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)}
15/1005 . . . {the wing being supported on arms movable in horizontal planes}
15/1007 . . . . {specially adapted for use in railway-cars or mass transit vehicles}
15/101 . . . . {specially adapted for vehicles (E05D 15/1007 takes precedence)}
15/1013 . . . . {specially adapted for windows}
15/1015 . . . . . {with an intermediate tilt position}
2015/1018 . . . {with the track rotating around its axis}
15/1021 . . . {involving movement in a third direction, e.g. vertically}
15/1023 . . . . {specially adapted for use in railway-cars or mass transit vehicles}
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}
15/1042 . . . {with transversely moving carriage (E05D 15/1065 takes precedence)}
15/1044 . . . . {specially adapted for use in railway-cars or mass transit vehicles}
15/1047 . . . . {specially adapted for vehicles (E05D 15/1044 takes precedence)}
2015/1049 . . . . {the carriage swinging or rotating in a transverse plane}
2015/1052 . . . . {transversely over-dimensioned track sections or carriage}
2015/1055 . . . . {with slanted or curved track sections or cams}
2015/1057 . . . . . {the carriage swinging or rotating in those track sections}
2015/106 . . . . {transversely orientated track sections}
2015/1063 . . . . {disconnecting the carriage from the track}
15/1065 . . . {with transversely moving track}
15/1068 . . . . {specially adapted for use in railway-cars or mass transit vehicles}
2015/1071 . . . . {the track being directly linked to the fixed frame, e.g. slidingly}
2015/1073 . . . . . {rocking transversely}
2015/1076 . . . . . {swinging transversely, e.g. on arms}
2015/1078 . . . . . {swinging or rotating in a horizontal plane}
15/1081 . . . . {specially adapted for vehicles (E05D 15/1068 takes precedence)}
2015/1084 . . . . {the carriage being directly linked to the fixed frame, e.g. slidingly}
2015/1086 . . . . . {swingingly, e.g. on arms}
2015/1089 . . . . . {the carriage having means for preventing rotation of the wing}
2015/1092 . . . . . {the carriage swinging or rotating in curved track sections}
2015/1094 . . . . . {disconnecting itself from the track}
2015/1097 . . . . {with the carriage and track forming a telescopic element}
15/12 . . consisting of parts connected at their edges
15/14 . . with movable arms situated in the plane of the wing
15/16 . for wings sliding vertically more or less in their own plane
15/165 . . {Details, e.g. sliding or rolling guides (E05D 15/18 - E05D 15/24 take precedence)}
15/18 . . consisting of two or more independent parts, movable each in its own guides
15/20 . . movable out of one plane into a second parallel plane
15/22 . . allowing an additional movement {(E05D 15/20 takes precedence)}
2015/225 . . . {specially adapted for overhead wings}
15/24 . . consisting of parts connected at their edges
15/242 . . . {Hinge connections between the parts}
15/244 . . . {Upper part guiding means}
15/246 . . . . {with additional guide rail for producing an additional movement}
15/248 . . . . {with lever arms for producing an additional movement}
15/26 . for folding wings
15/262 . . {folding vertically}
15/264 . . {for bi-fold wings}
15/266 . . . {comprising two pivots placed at opposite edges of the wing}
2015/268 . . {the wings being successively folded}
15/28 . supported on arms movable in horizontal plane
15/30 . . with pivoted arms and sliding guides
15/32 . . with two pairs of pivoted arms
15/34 . . . with wings opening parallel to themselves
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
15/38 . . for upwardly-moving wings, e.g. up-and-over doors
15/40 . supported on arms movable in vertical planes
15/401 . . {specially adapted for overhead wings (E05D 15/403 - E05D 15/46 take precedence)}
15/403 . . {with arms fixed on the wing pivoting about an axis outside the wing}
15/405 . . {with curved arms fixed on the wing, rolling on a support}
15/406 . . {with pivoted arms and sliding guides (E05D 15/42, E05D 15/44 take precedence)}
15/408 . . . {with sliding guides fixed to the wing}
15/42 . . with pivoted arms and horizontally-sliding guides
15/425 . . . {specially adapted for overhead wings}
15/44 . . with pivoted arms and vertically-sliding guides
15/445 . . . {specially adapted for overhead wings}
15/46 . . with two pairs of pivoted arms
15/463 . . . {specially adapted for overhead wings}
15/466 . . . {specially adapted for windows}
15/48 . allowing alternative movements ({E05D 15/0604 takes precedence } ; for vertically-sliding wings E05D 15/22)
2015/482 . . {for panic doors}
2015/485 . . {Swinging or sliding movements}
2015/487 . . {Tilting or swinging movements}

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)}
15/502 . . . {by axial separation of the hinge parts at the hinge axis}
15/505 . . . {by radial separation of the hinge parts at the hinge axis}
15/507 . . . {by detachment of the hinge from the wing or the frame}
15/52 . . for opening about a vertical as well as a horizontal axis
15/5202 . . . {with non-horizontally extending checks}
15/5205 . . . {with horizontally-extending checks}
15/5208 . . . {with means for transmitting movements between vertical and horizontal sliding bars, rods or cables}
15/5211 . . . {Concealed suspension fittings}
15/5214 . . . {Corner supports}
15/5217 . . . {Tilt-lock devices}
15/522 . . . with disconnecting means for the appropriate pivoting parts
15/523 . . . . using movable rods
15/524 . . . . . Actuating mechanisms
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