CPC  COOPERATIVE PATENT CLASSIFICATION

E  FIXED CONSTRUCTIONS

BUILDING

E05  LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES

(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 7/082
E05D 15/04 covered by 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]
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]
raising wings before being turned E05F 7/02
be self-closing E05F 1/06
special suspension arrangements E05D 15/00
so as to
with means for
E05F 1/12
( E05D 7/043
takes precedence )

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 15/26d]{ 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 15/50]{ 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]
sliding wings E05F 1/02
safety catches

wing open (for holding wings closed E05C
{ Fasteners specially adapted for holding sliding
precedence )

Devices specially adapted for vehicles

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]
15/0695 . . . [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)

15/1018 . . . (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)

15/1026 . . . (accessories, e.g. sliding or rolling guides, latches)

15/1028 . . . (with only the wing moving transversely)

15/1031 . . . (the wing supported on arms extending from the carriage)

15/1034 . . . (the carriage having means for preventing rotation of the wing)

15/1036 . . . (the arms being movable in vertical, e.g. transverse, planes)

15/1039 . . . (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))

15/1049 . . . (the carriage swinging or rotating in a transverse plane)

15/1052 . . . (transversely over-dimensioned track sections or carriage)

15/1055 . . . (with slanted or curved track sections or cams)

15/1057 . . . (the carriage swinging or rotating in those track sections)

15/106 . . . (transversely orientated track sections)

15/1063 . . . (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)

15/1071 . . . (the track being directly linked to the fixed frame, e.g. slidingly)

15/1073 . . . (rocking transversely)

15/1076 . . . (swinging transversely, e.g. on arms)

15/1078 . . . (swinging or rotating in a horizontal plane)

15/1081 . . . (specially adapted for vehicles
(E05D 15/1068 takes precedence))

15/1084 . . . (the carriage being directly linked to the fixed frame, e.g. slidingly)

15/1086 . . . (swingingly, e.g. on arms)

15/1089 . . . (the carriage having means for preventing rotation of the wing)

15/1092 . . . (the carriage swinging or rotating in curved track sections)

15/1094 . . . (disconnecting itself from the track)

15/1097 . . . (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)

15/225 . . . (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)

15/268 . . . (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)

15/482 . . . (for panic doors)

15/485 . . . (Swinging or sliding movements)

15/487 . . . (Tilting or swinging movements)
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)

by axial separation of the hinge parts at the hinge axis

by radial separation of the hinge parts at the hinge axis

by detachment of the hinge from the wing or the frame

for opening about a vertical as well as a horizontal axis

with non-horizontally extending checks

with horizontally-extending checks

with means for transmitting movements between vertical and horizontal sliding bars, rods or cables

{Concealed suspension fittings}

{Corner supports}

{Tilt-lock devices}

with disconnecting means for the appropriate pivoting parts

using movable rods

Actuating mechanisms

Safety devices (E05D 15/5217 takes precedence)

acting parallel to the plane of the wing

acting perpendicular to the plane of the wing

for opening both inwards and outwards

with successive different movements (raising wings before being turned E05F 7/02)

for raising wings before sliding

with both swinging and sliding movements

the swinging axis laying in the sliding direction (E05D 15/1015 takes precedence)

with horizontal swinging axis (E05D 15/581 takes precedence)

specially adapted for overhead wings

{with stationary hinge parts}

{with travelling hinge parts}

{with axially separating hinge parts}

{with radially separating hinge parts}

Hinges or other suspension devices especially for doors or windows

Hinges with one pivot axis and one bearing surface

Hinges with one pivot axis and more than one bearing surface

Various door and window fittings, e.g. suspension devices for double hung windows or screens

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