

CPC**COOPERATIVE PATENT CLASSIFICATION****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 1/00D](#) ; 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 1/16P2H](#)])

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: [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 15/40](#) B

[E05D 15/522](#) covered by [E05D 15/52](#)

[E05D 15/523](#) covered by [E05D 15/52](#)

[E05D 15/524](#) covered by [E05D 15/52](#)

Guidance heading:**E05D 1/00****Pinless hinges ; Substitutes for hinges****E05D 1/02**

- . made of one piece

E05D 1/04

- . with guide members shaped as circular arcs

E05D 1/06

- . consisting of two easily-separable parts

E05D 3/00**Hinges with pins** (([E05D 7/08](#) takes precedence))**E05D 3/02**

- . with one pin

E05D 3/022

- .. { allowing an additional lateral movement, e.g. for sealing }

E05D 3/04

- .. engaging three or more parts, e.g. sleeves, movable relatively to one another for connecting two or more wings to another member

E05D 3/06

- . with two or more pins ([E05D 7/08](#) takes precedence)

E05D 3/08

- .. for swing-doors, i.e. openable by pushing from either side

E05D 3/10

- .. with non-parallel pins

E05D 3/12

- .. with two parallel pins and one arm

E05D 3/122

- ... { Gear hinges }

E05D 3/125

- ... { specially adapted for vehicles }

E05D 3/127

- { for vehicle doors }

E05D 3/14

- .. with four parallel pins and two arms

- E05D 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) }
- E05D 3/145 . . . { specially adapted for vehicles }
- E05D 3/147 { for vehicle doors }
- E05D 3/16 . . with seven parallel pins and four arms
- E05D 3/18 . . with sliding pins or guides
- E05D 3/183 . . . { with at least one of the hinge parts having a cup-shaped fixing part, e.g. for attachment to cabinets or furniture }
- E05D 3/186 . . . { Scissors hinges, with two crossing levers and five parallel pins }

E05D 5/00**Construction of single parts, e.g. the parts for attachment**

- E05D 5/02 . Parts for attachment, e.g. flaps
- E05D 5/0207 . . { for attachment to vehicles ([E05D 5/043](#) , [E05D 5/062](#) take precedence) }
- E05D 5/0215 . . { for attachment to profile members or the like }
- E05D 5/0223 . . . { with parts, e.g. screws, extending through the profile wall or engaging profile grooves }
- E05D 5/023 { with parts extending through the profile wall }
- E05D 5/0238 { with parts engaging profile grooves }
- E05D 5/0246 . . { for attachment to glass panels }
- E05D 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) }
- E05D 5/04 . . Flat flaps
- E05D 5/043 . . . { specially adapted for vehicles }
- E05D 5/046 . . . { specially adapted for cabinets or furniture }
- E05D 5/06 . . Bent flaps
- E05D 5/062 . . . { specially adapted for vehicles }
- E05D 5/065 . . . { specially adapted for cabinets or furniture }
- E05D 5/08 . . of cylindrical shape
- E05D 5/10 . Pins, sockets or sleeves ; Removable pins ([E05D 15/522](#) takes precedence)
- E05D 5/12 . . Securing pins in sockets, movably or not
- E05D 5/121 . . . { Screw-threaded pins }
- E05D 5/125 . . . { Non-removable, snap-fitted pins (removable snap-fitted pins [E05D 7/1022](#) , [E05D 7/1055](#)) }
- E05D 5/127 . . . { by forcing the pin into the socket ([E05D 5/125](#) takes precedence) }
- E05D 5/128 . . . { the pin having a recess or through-hole engaged by a securing member }
- E05D 5/14 . . Construction of sockets or sleeves
- E05D 5/16 . . . to be secured without special attachment parts on the socket or sleeve

E05D 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](#))

- E05D 7/0009 . { Adjustable hinges ([E05D 7/04](#) takes precedence) }

- E05D 7/0018 .. { at the hinge axis }
- E05D 7/0027 ... { in an axial direction }
- E05D 7/0045 ... { in a radial direction }
- E05D 7/0054 { by means of eccentric parts }

- E05D 7/009 . { Elongate hinges, e.g. piano-hinges }

- E05D 7/02 . for use on the right-hand as well as the left-hand side ; Convertible right-hand or left-hand hinges

- E05D 7/04 . Hinges adjustable relative to the wing or the frame
- E05D 7/0407 .. { the hinges having two or more pins and being specially adapted for cabinets or furniture }
- E05D 7/0415 .. { with adjusting drive means }
- E05D 7/0423 ... { Screw-and-nut mechanisms ([E05D 7/0407](#) , [E05D 7/043](#) take precedence) }
- E05D 7/043 .. { by means of dowel attachments }

- E05D 7/06 . to allow tilting of the members

- E05D 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) }
- E05D 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
- E05D 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 }
- E05D 7/083 ... with a fixed pivot axis
- E05D 7/084 ... with a movable pivot axis
- E05D 7/085 with two or more pivot axes, e.g. used at the same time
- E05D 7/086 ... Braking devices structurally combined with hinges ([braking devices for windows per se E05F 5/00](#))

- E05D 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](#))
- E05D 7/1005 .. { by axially moving free pins, balls or sockets }
- E05D 7/1011 ... { biased by free springs ([E05D 7/1016](#) takes precedence) }
- E05D 7/1016 ... { requiring a specific angular position }
- E05D 7/1022 ... { with snap-fitted pins }
- E05D 7/1044 .. { in an axial direction ([E05D 7/1005](#) takes precedence) }
- E05D 7/105 ... { requiring a specific angular position }
- E05D 7/1055 ... { with snap-fitted pins }
- E05D 7/1061 .. { in a radial direction ([E05D 7/1005](#) takes precedence) }
- E05D 7/1066 ... { requiring a specific angular position }
- E05D 7/1072 { the pin having a non-circular cross-section }
- E05D 7/1077 ... { with snap-fitted pins }
- E05D 7/1083 .. { facilitating simultaneous assembly of a plurality of hinges, e.g. for mounting heavy wings }

- E05D 7/12 . to allow easy detachment of the hinge from the wing or the frame { ([E05D 15/507](#) takes precedence) }
- E05D 7/121 .. { specially adapted for vehicles }
- E05D 7/123 .. { specially adapted for cabinets or furniture }
- E05D 7/125 ... { the hinge having two or more pins }
- E05D 7/14 . Hinges for safes
- E05D 9/00** **Flaps or sleeves specially designed for making from particular material, e.g. hoop-iron, sheet metal, plastics**
- E05D 9/005 . { from plastics ([E05D 1/02](#) takes precedence) }
- E05D 11/00** **Additional features or accessories of hinges { (edge protecting devices [E06B 3/88](#)) }**
- E05D 11/0009 . { Templates for marking the position of fittings on wings or frames (implements for making doors, windows or frames [E04F 21/003](#)) }
- E05D 11/0018 . { Anti-tamper devices }
- E05D 11/0027 .. { arranged on or near the hinge and comprising parts interlocking as the wing closes, e.g. security studs }
- E05D 11/0054 . { Covers, e.g. for protection }
- E05D 11/0081 . { for transmitting energy, e.g. electrical cable routing }
- E05D 11/02 . Lubricating arrangements
- E05D 11/04 . relating to the use of free balls as bearing-surfaces ([E05D 7/06](#) takes precedence)
- E05D 11/06 . Devices for limiting the opening movement of hinges
- E05D 11/08 . Friction devices between relatively-movable hinge parts ([E05D 7/086](#) takes precedence)
- E05D 11/081 .. { with both radial and axial friction, e.g. conical friction surfaces }
- E05D 11/082 .. { with substantially radial friction, e.g. cylindrical friction surfaces }
- E05D 11/084 ... { the friction depending on direction of rotation or opening angle of the hinge }
- E05D 11/087 .. { with substantially axial friction, e.g. friction disks }
- E05D 11/10 . Devices for preventing movement between relatively-movable hinge parts
- E05D 11/1007 .. { with positive locking }
- E05D 11/1014 .. { for maintaining the hinge in only one position, e.g. closed }
- E05D 11/1021 ... { the hinge having two or more pins and being specially adapted for cabinets or furniture }
- E05D 11/1028 .. { for maintaining the hinge in two or more positions, e.g. intermediate or fully open }
- E05D 11/1042 ... { the maintaining means being a cam and a torsion bar, e.g. motor vehicle hinge mechanisms }

- E05D 11/105 . . . { the maintaining means acting perpendicularly to the pivot axis }
- E05D 11/1057 { specially adapted for vehicles ([E05D 11/1064](#) takes precedence) }
- E05D 11/1064 { with a coil spring perpendicular to the pivot axis }
- E05D 11/1071 { specially adapted for vehicles }
- E05D 11/1078 . . . { the maintaining means acting parallel to the pivot }
- E05D 11/1085 { specially adapted for vehicles }

E05D 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](#))

- E05D 13/003 . { Anti-dropping devices ([E05D 13/1223](#) , [E05D 13/1246](#) , [E05D 13/1269](#) , [E05D 13/1292](#) take precedence) }
- E05D 13/006 . . { fixed to the wing, i.e. safety catches }
- E05D 13/04 . Fasteners specially adapted for holding sliding wings open ({ [E05D 15/06B2](#) takes precedence } ; for holding wings closed [E05C](#))
- E05D 13/06 . . with notches { for vertically sliding wings }
- E05D 13/08 . . acting by friction { for vertically sliding wings }
- E05D 13/10 . Counterbalance devices
- E05D 13/12 . . with springs
- E05D 13/1207 . . . { with tension springs }
- E05D 13/1215 { specially adapted for overhead wings ([E05D 13/1223](#) takes precedence) }
- E05D 13/1223 { Spring safety devices }
- E05D 13/123 . . . { with compression springs }
- E05D 13/1238 { specially adapted for overhead wings ([E05D 13/1246](#) takes precedence) }
- E05D 13/1246 { Spring safety devices }
- E05D 13/1253 . . . { with canted-coil torsion springs }
- E05D 13/1261 { specially adapted for overhead wings ([E05D 13/1269](#) takes precedence) }
- E05D 13/1269 { Spring safety devices }
- E05D 13/1276 . . . { with coiled ribbon springs, e.g. constant force springs ([E05D 13/1253](#) takes precedence) }
- E05D 13/1284 { specially adapted for overhead wings ([E05D 13/1292](#) takes precedence) }
- E05D 13/1292 { Spring safety devices }
- E05D 13/14 . . with weights
- E05D 13/145 . . . { specially adapted for overhead wings }

E05D 15/00

Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means [E06B 3/32](#))

- E05D 15/02 . for revolving wings
- E05D 15/04 . with arms fixed on the wing pivoting about an axis outside of the wing
- E05D 15/06 . for wings sliding horizontally more or less in their own plane

E05D 15/0604	..	{ allowing an additional movement (E05D 15/10 takes precedence; raising wings before sliding E05D 15/565) }
E05D 15/0608	...	{ caused by track lay-out }
E05D 15/0613	....	{ with multi-directional trolleys }
E05D 15/0617	..	{ of cantilever type }
E05D 15/0621	..	{ Details, e.g. suspension or supporting guides (E05D 15/0604 , E05D 15/08 to E05D 15/14 take precedence) }
E05D 15/0626	...	{ for wings suspended at the top }
E05D 15/063	....	{ on wheels with fixed axis }
E05D 15/0634	.....	{ with height adjustment }
E05D 15/0639	.....	{ by vertical bolts }
E05D 15/0643	....	{ on balls or floating rollers }
E05D 15/0647	....	{ on sliding blocks }
E05D 15/0652	....	{ Tracks (E05D 15/063 to E05D 15/0647 and E05D 15/0656 take precedence) }
E05D 15/0656	....	{ Bottom guides }
E05D 15/066	...	{ for wings supported at the bottom }
E05D 15/0665	....	{ on wheels with fixed axis }
E05D 15/0669	.....	{ with height adjustment }
E05D 15/0673	.....	{ by vertical bolts }
E05D 15/0678	....	{ on balls or floating rollers }
E05D 15/0682	....	{ on sliding blocks }
E05D 15/0686	....	{ Tracks (E05D 15/0665 to E05D 15/0682 and E05D 15/0691 take precedence) }
E05D 15/0691	....	{ Top guides }
E05D 15/08	..	consisting of two or more independent parts movable each in its own guides
E05D 15/10	..	movable out of one plane into a second parallel plane
E05D 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) }
E05D 15/1005	...	{ the wing being supported on arms movable in horizontal planes }
E05D 15/1007	....	{ specially adapted for use in railway-cars or mass transit vehicles }
E05D 15/101	....	{ specially adapted for vehicles (E05D 15/1007 takes precedence) }
E05D 15/1013	....	{ specially adapted for windows }
E05D 15/1015	.....	{ with an intermediate tilt position }
E05D 15/1021	...	{ involving movement in a third direction, e.g. vertically }
E05D 15/1023	....	{ specially adapted for use in railway-cars or mass transit vehicles }
E05D 15/1042	...	{ with transversely moving carriage (E05D 15/1065 takes precedence) }
E05D 15/1044	....	{ specially adapted for use in railway-cars or mass transit vehicles }
E05D 15/1047	....	{ specially adapted for vehicles (E05D 15/1044 takes precedence) }
E05D 15/1065	...	{ with transversely moving track }
E05D 15/1068	....	{ specially adapted for use in railway-cars or mass transit vehicles }
E05D 15/1081	....	{ specially adapted for vehicles (E05D 15/1068 takes precedence) }
E05D 15/12	..	consisting of parts connected at their edges

- E05D 15/14 .. with movable arms situated in the plane of the wing
- E05D 15/16 . for wings sliding vertically more or less in their own plane
- E05D 15/165 .. { Details, e.g. sliding or rolling guides ([E05D 15/18](#) to [E05D 15/24](#) take precedence) }
- E05D 15/18 .. consisting of two or more independent parts, movable each in its own guides
- E05D 15/20 .. movable out of one plane into a second parallel plane
- E05D 15/22 .. allowing an additional movement { ([E05D 15/20](#) takes precedence) }
- E05D 15/24 .. consisting of parts connected at their edges
- E05D 15/242 ... { Hinge connections between the parts }
- E05D 15/244 ... { Upper part guiding means }
- E05D 15/246 { with additional guide rail for producing an additional movement }
- E05D 15/248 { with lever arms for producing an additional movement }
- E05D 15/26 . for folding wings
- E05D 15/262 .. { folding vertically ([E05D 15/26B1](#) , [E05D 15/26B2B](#) take precedence) }
- E05D 15/264 .. { for bi-fold wings }
- E05D 15/266 ... { comprising two pivots placed at opposite edges of the wing }
- E05D 15/28 . supported on arms movable in horizontal plane
- E05D 15/30 .. with pivoted arms and sliding guides
- E05D 15/32 .. with two pairs of pivoted arms
- E05D 15/34 ... with wings opening parallel to themselves
- E05D 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
- E05D 15/38 .. for upwardly-moving wings, e.g. up-and-over doors
- E05D 15/40 . supported on arms movable in vertical planes
- E05D 15/401 .. { specially adapted for overhead wings ([E05D 15/403](#) to [E05D 15/46](#) take precedence) }
- E05D 15/403 .. { with arms fixed on the wing pivoting about an axis outside the wing }
- E05D 15/405 .. { with curved arms fixed on the wing, rolling on a support }
- E05D 15/406 .. { with pivoted arms and sliding guides ([E05D 15/42](#) , [E05D 15/44](#) take precedence) }
- E05D 15/408 ... { with sliding guides fixed to the wing }
- E05D 15/42 .. with pivoted arms and horizontally-sliding guides
- E05D 15/425 ... { specially adapted for overhead wings }
- E05D 15/44 .. with pivoted arms and vertically-sliding guides
- E05D 15/445 ... { specially adapted for overhead wings }
- E05D 15/46 .. with two pairs of pivoted arms
- E05D 15/463 ... { specially adapted for overhead wings }
- E05D 15/466 ... { specially adapted for windows }
- E05D 15/48 . allowing alternative movements ({ [E05D 15/0604](#) takes precedence } ; for vertically-sliding wings [E05D 15/22](#))

- E05D 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](#)) }
- E05D 15/502 . . . { by axial separation of the hinge parts at the hinge axis }
- E05D 15/505 . . . { by radial separation of the hinge parts at the hinge axis }
- E05D 15/507 . . . { by detachment of the hinge from the wing or the frame }
- E05D 15/52 . . for opening about a vertical as well as a horizontal axis
- E05D 15/5202 . . . { with non-horizontally extending checks }
- E05D 15/5205 . . . { with horizontally-extending checks }
- E05D 15/5208 . . . { with means for transmitting movements between vertical and horizontal sliding bars, rods or cables }
- E05D 15/5211 . . . { Concealed suspension fittings }
- E05D 15/5214 . . . { Corner supports }
- E05D 15/5217 . . . { Tilt-lock devices }
- E05D 15/522 . . . with disconnecting means for the appropriate pivoting parts
- E05D 15/523 using movable rods
- E05D 15/524 Actuating mechanisms
- E05D 15/526 . . . Safety devices { ([E05D 15/5217](#) takes precedence) }
- E05D 15/54 . . for opening both inwards and outwards
- E05D 15/56 . with successive different movements { (raising wings before being turned [E05F 7/02](#)) }
- E05D 15/565 . . { for raising wings before sliding }
- E05D 15/58 . . with both swinging and sliding movements
- E05D 15/581 . . . { the swinging axis laying in the sliding direction ([E05D 15/1015](#) takes precedence) }
- E05D 15/582 . . . { with horizontal swinging axis ([E05D 15/581](#) takes precedence) }
- E05D 15/583 { specially adapted for overhead wings }

Guidance heading:

E05D 2001/00 Pinless hinges ; Substitutes for hinges

- E05D 2001/04 . with guide members shaped as circular arcs
- E05D 2001/045 . . for telescopic hinges

E05D 2003/00 Hinges with pins { ([E05D 7/08](#) takes precedence) }

- E05D 2003/02 . with one pin
- E05D 2003/025 . . having three knuckles
- E05D 2003/027 . . . the end knuckles being mutually connected
- E05D 2003/06 . with two or more pins ([E05D 7/08](#) takes precedence)
- E05D 2003/16 . . with seven parallel pins and four arms

- E05D 2003/163 . . . Horizontal pivot-axis
- E05D 2003/166 . . . Vertical pivot-axis

E05D 2005/00 Construction of single parts, e.g. the parts for attachment

- E05D 2005/02 . Parts for attachment, e.g. flaps
- E05D 2005/0246 . . { for attachment to glass panels }
- E05D 2005/0253 . . . the panels having conical or stepped recesses
- E05D 2005/0261 . . . connecting two or more glass panels
- E05D 2005/0269 the panels being coplanar
- E05D 2005/0284 . . for embedding in concrete or masonry
- E05D 2005/0292 . . for passing through insulating layers
- E05D 2005/06 . . Bent flaps
- E05D 2005/067 . . . gooseneck shaped

- E05D 2005/10 . Pins, sockets or sleeves ; Removable pins ([E05D 15/522](#) takes precedence)
- E05D 2005/102 . . Pins
- E05D 2005/104 . . . characterised by the materials
- E05D 2005/106 . . . with non-cylindrical portions
- E05D 2005/108 . . . with elastically deformable parts
- E05D 2005/12 . . Securing pins in sockets, movably or not
- E05D 2005/121 . . . { Screw-threaded pins }
- E05D 2005/122 externally threaded
- E05D 2005/124 internally threaded
- E05D 2005/14 . . Construction of sockets or sleeves
- E05D 2005/145 . . . with elastically deformable parts

E05D 2007/00 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](#))

- E05D 2007/0009 . . { Adjustable hinges ([E05D 7/04](#) takes precedence) }
- E05D 2007/0018 . . { at the hinge axis }
- E05D 2007/0027 . . . { in an axial direction }
- E05D 2007/0036 with axially fixed hinge pins
- E05D 2007/0045 . . . { in a radial direction }
- E05D 2007/0054 { by means of eccentric parts }
- E05D 2007/0063 Eccentric hinge pins
- E05D 2007/0072 with sliding sleeves
- E05D 2007/0081 with swinging or rolling sleeves

- E05D 2007/04 . Hinges adjustable relative to the wing or the frame
- E05D 2007/043 . . { by means of dowel attachments }
- E05D 2007/0438 . . . with bolts fixedly mounted on the hinge part

- E05D 2007/0446 . . . with threaded bolts fixedly mounted on the hinge part
- E05D 2007/0453 . . . with threaded sleeves
- E05D 2007/0461 . . in angular arrangement to the wing or the frame
- E05D 2007/0469 . . in an axial direction
- E05D 2007/0476 . . Pocket hinges
- E05D 2007/0484 . . in a radial direction
- E05D 2007/0492 . . in three directions

- E05D 2007/10 . 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](#))
- E05D 2007/1005 . . { by axially moving free pins, balls or sockets }
- E05D 2007/1027 . . . by axially moving free pins
- E05D 2007/1033 . . . by axially moving free balls
- E05D 2007/1038 . . . by axially moving free sockets
- E05D 2007/1083 . . { facilitating simultaneous assembly of a plurality of hinges, e.g. for mounting heavy wings }
- E05D 2007/1088 . . . using hinge pins having different lengths
- E05D 2007/1094 . . Guiding devices therefor

- E05D 2007/12 . to allow easy detachment of the hinge from the wing or the frame { ([E05D 15/507](#) takes precedence) }
- E05D 2007/126 . . in an axial direction
- E05D 2007/128 . . in a radial direction

- E05D 2011/00 Additional features or accessories of hinges { (edge protecting devices [E06B 3/88](#)) }**

- E05D 2011/0018 . { Anti-tamper devices }
- E05D 2011/0027 . . { arranged on or near the hinge and comprising parts interlocking as the wing closes, e.g. security studs }
- E05D 2011/0036 . . . near the hinge
- E05D 2011/0045 . . . on the hinge

- E05D 2011/0054 . { Covers, e.g. for protection }
- E05D 2011/0063 . . for screw-heads or bolt-heads
- E05D 2011/0072 . . for the gap between hinge parts

- E05D 2011/009 . Impact absorbing hinges for vehicle doors

- E05D 2011/04 . relating to the use of free balls as bearing-surfaces ([E05D 7/06](#) takes precedence)
- E05D 2011/045 . . located in line with the hinge axis

- E05D 2011/08 . Friction devices between relatively-movable hinge parts ([E05D 7/086](#) takes precedence)
- E05D 2011/082 . . { with substantially radial friction, e.g. cylindrical friction surfaces }
- E05D 2011/085 . . . the friction depending on the opening angle
- E05D 2011/088 . . with automatic disengagement

- E05D 2011/10 . Devices for preventing movement between relatively-movable hinge parts
- E05D 2011/1028 .. { for maintaining the hinge in two or more positions, e.g. intermediate or fully open }
- E05D 2011/1035 ... with circumferential and evenly distributed detents around the pivot-axis
- E05D 2011/1092 .. the angle between the hinge parts being adjustable

- E05D 2015/00** **Suspension arrangements for wings** (arrangements of wings not characterised by the construction of the supporting means [E06B 3/32](#))

- E05D 2015/06 . for wings sliding horizontally more or less in their own plane
- E05D 2015/0621 .. { Details, e.g. suspension or supporting guides ([E05D 15/0604](#) , [E05D 15/08](#) to [E05D 15/14](#) take precedence) }
- E05D 2015/0695 ... Magnetic suspension or supporting means
- E05D 2015/10 .. movable out of one plane into a second parallel plane
- E05D 2015/1018 ... with the track rotating around its axis
- E05D 2015/1026 ... accessories, e.g. sliding or rolling guides, latches
- E05D 2015/1028 ... with only the wing moving transversely
- E05D 2015/1031 the wing supported on arms extending from the carriage
- E05D 2015/1034 the carriage having means for preventing rotation of the wing
- E05D 2015/1036 the arms being movable in vertical, e.g. transverse, planes
- E05D 2015/1039 the wing sliding transversely on the carriage
- E05D 2015/1042 ... { with transversely moving carriage ([E05D 15/1065](#) takes precedence) }
- E05D 2015/1049 the carriage swinging or rotating in a transverse plane
- E05D 2015/1052 transversely over-dimensioned track sections or carriage
- E05D 2015/1055 with slanted or curved track sections or cams
- E05D 2015/1057 the carriage swinging or rotating in those track sections
- E05D 2015/106 transversely orientated track sections
- E05D 2015/1063 disconnecting the carriage from the track
- E05D 2015/1065 ... { with transversely moving track }
- E05D 2015/1071 the track being directly linked to the fixed frame, e.g. slidingly
- E05D 2015/1073 rocking transversely
- E05D 2015/1076 swinging transversely, e.g. on arms
- E05D 2015/1078 swinging or rotating in a horizontal plane
- E05D 2015/1084 the carriage being directly linked to the fixed frame, e.g. slidingly
- E05D 2015/1086 swingingly, e.g. on arms
- E05D 2015/1089 the carriage having means for preventing rotation of the wing
- E05D 2015/1092 the carriage swinging or rotating in curved track sections
- E05D 2015/1094 disconnecting itself from the track
- E05D 2015/1097 with the carriage and track forming a telescopic element

- E05D 2015/16 . for wings sliding vertically more or less in their own plane
- E05D 2015/22 .. allowing an additional movement { ([E05D 15/20](#) takes precedence) }
- E05D 2015/225 ... specially adapted for overhead wings

- E05D 2015/26 . for folding wings

- E05D 2015/268 . . the wings being successively folded
- E05D 2015/48 . allowing alternative movements ({ [E05D 15/0604](#) takes precedence } ; for vertically-sliding wings [E05D 15/22](#))
- E05D 2015/482 . . for panic doors
- E05D 2015/485 . . Swinging or sliding movements
- E05D 2015/487 . . Tilting or swinging movements
- E05D 2015/52 . . for opening about a vertical as well as a horizontal axis
- E05D 2015/526 . . . Safety devices { ([E05D 15/5217](#) takes precedence) }
- E05D 2015/5263 acting parallel to the plane of the wing
- E05D 2015/5266 acting perpendicular to the plane of the wing
- E05D 2015/56 . with successive different movements { ([raising wings before being turned E05F 7/02](#)) }
- E05D 2015/58 . . with both swinging and sliding movements
- E05D 2015/585 . . . with stationary hinge parts
- E05D 2015/586 . . . with travelling hinge parts
- E05D 2015/587 . . . with axially separating hinge parts
- E05D 2015/588 . . . with radially separating hinge parts

Guidance heading:

E05D 2700/00 Hinges or other suspension devices especially for doors or windows

- E05D 2700/02 . Hinges with one pivot axis and one bearing surface
- E05D 2700/04 . Hinges with one pivot axis and more than one bearing surface
- E05D 2700/10 . Various door and window fittings, e.g. suspension devices for double hung windows or screens
- E05D 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