

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 1/26](#) ; 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](#)])

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 15/403](#)

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

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

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

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 2001/045](#)

- .. {for telescopic hinges}

[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 2003/025](#)

- .. {having three knuckles}

[E05D 2003/027](#)

- ... {the end knuckles being mutually connected}

[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 2003/163 . . . {Horizontal pivot-axis}
- E05D 2003/166 . . . {Vertical pivot-axis}
- 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 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 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 2005/0284 . . {for embedding in concrete or masonry}
- E05D 2005/0292 . . {for passing through insulating layers}
- 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 2005/067 . . . {gooseneck shaped}
- E05D 5/08 . . of cylindrical shape
- E05D 5/10 . 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 5/12 . . Securing pins in sockets, movably or not
- E05D 5/121 . . . {Screw-threaded pins}

E05D 2005/122	....	{externally threaded}
E05D 2005/124	....	{internally threaded}
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 2005/145	...	{with elastically deformable parts}
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 2007/0036	....	{with axially fixed hinge pins}
E05D 7/0045	...	{in a radial direction}
E05D 7/0054	....	{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 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 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 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 2007/1027
 - ... {[by axially moving free pins](#)}
- E05D 2007/1033
 - ... {[by axially moving free balls](#)}
- E05D 2007/1038
 - ... {[by axially moving free sockets](#)}
- 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 2007/1088
 - ... {[using hinge pins having different lengths](#)}
- E05D 2007/1094
 - .. {[Guiding devices therefor](#)}
- 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 2007/126
 - .. {[in an axial direction](#)}
- E05D 2007/128
 - .. {[in a radial direction](#)}
- 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 2011/0036 . . . {near the hinge}
- E05D 2011/0045 . . . {on the hinge}
- E05D 11/0054 . {Covers, e.g. for protection}
- E05D 2011/0063 . . {for screw-heads or bolt-heads}
- E05D 2011/0072 . . {for the gap between hinge parts}
- E05D 11/0081 . {for transmitting energy, e.g. electrical cable routing}
- E05D 2011/009 . {Impact absorbing hinges for vehicle doors}
- E05D 11/02 . Lubricating arrangements
- E05D 11/04 . 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 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 2011/085 . . . {the friction depending on the opening angle}
- E05D 11/087 . . {with substantially axial friction, e.g. friction disks}
- E05D 2011/088 . . {with automatic disengagement}
- 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 2011/1035 . . . {with circumferential and evenly distributed detents around the pivot-axis}
- 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 2011/1092 .. {the angle between the hinge parts being adjustable}

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(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 2015/0695	...	{Magnetic suspension or supporting means}
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 2015/1018	...	{with the track rotating around its axis}
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 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 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 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 15/1065	...	{with transversely moving track}
E05D 15/1068	....	{specially adapted for use in railway-cars or mass transit vehicles}
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 15/1081	....	{specially adapted for vehicles(E05D 15/1068 takes precedence)}
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 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 2015/225	...	{specially adapted for overhead wings}
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 15/264	..	{for bi-fold wings}
E05D 15/266	...	{comprising two pivots placed at opposite edges of the wing}
E05D 2015/268	..	{the wings being successively folded}
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 2015/482 . . {for panic doors}
- E05D 2015/485 . . {Swinging or sliding movements}
- E05D 2015/487 . . {Tilting or swinging movements}
- 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 2015/5263 . . . {acting parallel to the plane of the wing}
- E05D 2015/5266 . . . {acting perpendicular to the plane of the wing}
- 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}
- 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}

- 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