

**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

<b>E05D 9/00</b>	<b>Flaps or sleeves specially designed for making from particular material, e.g. hoop-iron, sheet metal, plastics</b>
E05D 9/005	<ul style="list-style-type: none"> <li>• {from plastics (<a href="#">E05D 1/02</a> takes precedence)}</li> </ul>
<b>E05D 11/00</b>	<b>Additional features or accessories of hinges {(edge protecting devices <a href="#">E06B 3/88</a>)}</b>
E05D 11/0009	<ul style="list-style-type: none"> <li>• {Templates for marking the position of fittings on wings or frames (implements for making doors, windows or frames <a href="#">E04F 21/003</a>)}</li> </ul>
E05D 11/0018	<ul style="list-style-type: none"> <li>• {Anti-tamper devices}</li> </ul>
E05D 11/0027	<ul style="list-style-type: none"> <li>• • {arranged on or near the hinge and comprising parts interlocking as the wing closes, e.g. security studs}</li> </ul>
E05D 2011/0036	<ul style="list-style-type: none"> <li>• • • {near the hinge}</li> </ul>
E05D 2011/0045	<ul style="list-style-type: none"> <li>• • • {on the hinge}</li> </ul>
E05D 11/0054	<ul style="list-style-type: none"> <li>• {Covers, e.g. for protection}</li> </ul>
E05D 2011/0063	<ul style="list-style-type: none"> <li>• • {for screw-heads or bolt-heads}</li> </ul>
E05D 2011/0072	<ul style="list-style-type: none"> <li>• • {for the gap between hinge parts}</li> </ul>
E05D 11/0081	<ul style="list-style-type: none"> <li>• {for transmitting energy, e.g. electrical cable routing}</li> </ul>
E05D 2011/009	<ul style="list-style-type: none"> <li>• {Impact absorbing hinges for vehicle doors}</li> </ul>
E05D 11/02	<ul style="list-style-type: none"> <li>• Lubricating arrangements</li> </ul>
E05D 11/04	<ul style="list-style-type: none"> <li>• relating to the use of free balls as bearing-surfaces (<a href="#">E05D 7/06</a> takes precedence)</li> </ul>
E05D 2011/045	<ul style="list-style-type: none"> <li>• • {located in line with the hinge axis}</li> </ul>
E05D 11/06	<ul style="list-style-type: none"> <li>• Devices for limiting the opening movement of hinges</li> </ul>
E05D 11/08	<ul style="list-style-type: none"> <li>• Friction devices between relatively-movable hinge parts (<a href="#">E05D 7/086</a> takes precedence)</li> </ul>
E05D 11/081	<ul style="list-style-type: none"> <li>• • {with both radial and axial friction, e.g. conical friction surfaces}</li> </ul>
E05D 11/082	<ul style="list-style-type: none"> <li>• • {with substantially radial friction, e.g. cylindrical friction surfaces}</li> </ul>
E05D 11/084	<ul style="list-style-type: none"> <li>• • • {the friction depending on direction of rotation or opening angle of the hinge}</li> </ul>
E05D 2011/085	<ul style="list-style-type: none"> <li>• • • {the friction depending on the opening angle}</li> </ul>
E05D 11/087	<ul style="list-style-type: none"> <li>• • {with substantially axial friction, e.g. friction disks}</li> </ul>
E05D 2011/088	<ul style="list-style-type: none"> <li>• • {with automatic disengagement}</li> </ul>
E05D 11/10	<ul style="list-style-type: none"> <li>• Devices for preventing movement between relatively-movable hinge parts</li> </ul>
E05D 11/1007	<ul style="list-style-type: none"> <li>• • {with positive locking}</li> </ul>
E05D 11/1014	<ul style="list-style-type: none"> <li>• • {for maintaining the hinge in only one position, e.g. closed}</li> </ul>
E05D 11/1021	<ul style="list-style-type: none"> <li>• • • {the hinge having two or more pins and being specially adapted for cabinets or furniture}</li> </ul>
E05D 11/1028	<ul style="list-style-type: none"> <li>• • {for maintaining the hinge in two or more positions, e.g. intermediate or fully open}</li> </ul>
E05D 2011/1035	<ul style="list-style-type: none"> <li>• • • {with circumferential and evenly distributed detents around the pivot-axis}</li> </ul>
E05D 11/1042	<ul style="list-style-type: none"> <li>• • • {the maintaining means being a cam and a torsion bar, e.g. motor vehicle hinge mechanisms}</li> </ul>
E05D 11/105	<ul style="list-style-type: none"> <li>• • • {the maintaining means acting perpendicularly to the pivot axis}</li> </ul>

- 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 ( <a href="#">E05D 15/1065</a> takes precedence)}
E05D 15/1044	. . . . .	{specially adapted for use in railway-cars or mass transit vehicles}
E05D 15/1047	. . . . .	{specially adapted for vehicles ( <a href="#">E05D 15/1044</a> 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 ( <a href="#">E05D 15/1068</a> 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 ( <a href="#">E05D 15/18</a> to <a href="#">E05D 15/24</a> 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 {( <a href="#">E05D 15/20</a> 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