

**E05 LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES****E05D HINGES OR OTHER SUSPENSION DEVICES FOR DOORS, WINDOWS, OR WINGS** (pivotal connections in general F16C 11/00)

|                        |                                             |                      |
|------------------------|---------------------------------------------|----------------------|
| HINGES                 | Details; accessories .....                  | 5/00, 9/00;<br>11/00 |
| General structure..... | 1/00, 3/00                                  |                      |
| Special structure..... | 7/00                                        |                      |
|                        | OTHER SUSPENSION DEVICES FOR<br>WINGS ..... | 13/00, 15/00         |

**1/00 Pinless hinges; Substitutes for hinges**

- 1/02 . made of one piece
- 1/04 . with guide members shaped as circular arcs
- 1/06 . consisting of two easily-separable parts

**3/00 Hinges with pins**

- 3/02 . with one pin
- 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) [2]
- 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 (E05D 3/08 takes precedence) [7]
- 3/14 . . with four parallel pins and two arms (E05D 3/08 takes precedence) [7]
- 3/16 . . with seven parallel pins and four arms (E05D 3/08 takes precedence) [7]
- 3/18 . . with sliding pins or guides (E05D 3/08 takes precedence) [7]

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

- 5/02 . Parts for attachment, e.g. flaps
- 5/04 . . Flat flaps
- 5/06 . . Bent flaps
- 5/08 . . of cylindrical shape
- 5/10 . Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [2]
- 5/12 . . Securing pins in sockets, movably or not
- 5/14 . . Construction of sockets or sleeves
- 5/16 . . . to be secured without special attachment parts on the socket or sleeve

**7/00 Hinges or pivots of special construction** (used for special suspension arrangements E05D 15/00; so as to be self-closing E05F 1/06, E05F 1/12; with means for raising wings before being turned E05F 7/02)

- 7/02 . for use on the right-hand as well as on the left-hand side; Convertible right-hand or left-hand hinges
- 7/04 . Hinges adjustable relative to the wing or the frame
- 7/06 . to allow tilting of the members
- 7/08 . for use in suspensions comprising two spigots placed at opposite edges of the wing, especially at the top and the bottom, e.g. trunnions
- 7/081 . . the pivot axis of the wing being situated near one edge of the wing (braking devices therefor E05D 11/08) [2]

- 7/082 . . the pivot axis of the wing being situated at a considerable distance from the edges of the wing [2]

- 7/083 . . . with a fixed pivot axis [2]

- 7/084 . . . with a movable pivot axis [2]

- 7/085 . . . . with two or more pivot axes, e.g. used at the same time [2]

- 7/086 . . . Braking devices structurally combined with hinges (braking devices for windows per se E05F 5/00) [2]

- 7/10 . to allow easy separation of the parts at the hinge axis (substitutes for hinges E05D 1/06)

- 7/12 . to allow easy detachment of the hinge from the wing or the frame

- 7/14 . Hinges for safes

**9/00 Flaps or sleeves specially designed for making from particular material, e.g. hoop-iron, sheet metal, plastics****11/00 Additional features or accessories of hinges**

- 11/02 . Lubricating arrangements
- 11/04 . relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence)
- 11/06 . Devices for limiting the opening movement of hinges
- 11/08 . Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence) [2]
- 11/10 . Devices for preventing movement between relatively-movable hinge parts

**13/00 Accessories for sliding or lifting wings, e.g. pulleys, safety catches** (counterbalance devices E05F 1/00, E05F 3/00) [4]**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
- 15/08 . . 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
- 15/12 . . 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
- 15/18 . . consisting of two or more independent parts movable each in its own guides

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- 15/20 . . movable out of one plane into a second parallel plane
- 15/22 . . allowing an additional movement
- 15/24 . . consisting of parts connected at their edges
- 15/26 . for folding wings
- 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
- 15/42 . . with pivoted arms and horizontally-sliding guides
- 15/44 . . with pivoted arms and vertically-sliding guides
- 15/46 . . with two pairs of pivoted arms
- 15/48 . allowing alternative movements (for vertically-sliding wings E05D 15/22)
- 15/50 . . for opening at either of two opposite edges
- 15/52 . . for opening about a vertical as well as a horizontal axis
- 15/522 . . . with disconnecting means for the appropriate pivoting parts [2]
- 15/523 . . . . using movable rods [2]
- 15/524 . . . . Actuating mechanisms [2]
- 15/526 . . . Safety devices [2]
- 15/54 . . for opening both inwards and outwards
- 15/56 . with successive different movements
- 15/58 . . with both swinging and sliding movements