

## SECTION E — FIXED CONSTRUCTIONS

### 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)

##### Subclass index

##### HINGES

General structure.....	1/00, 3/00
Special structure.....	7/00
Details; accessories.....	5/00, 9/00, 11/00
OTHER SUSPENSION DEVICES FOR 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]

## E05D

- 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
  - 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