

E05 LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES

E05C BOLTS OR FASTENING DEVICES FOR WINGS, SPECIALLY FOR DOORS OR WINDOWS (latching means for sideboard or tailgate structures for vehicles B62D 33/037; fastening devices for constructional or engineering elements E04, F16B; locks, fastening devices structurally or operatively combined or having significant cooperation with locks E05B; means for operating or controlling wing fasteners in conjunction with mechanisms for moving the wing E05F)

- (1) In this subclass, only the movement essential for securing the wing is considered, e.g. a sliding bolt which is rotated on its axis to prevent its withdrawal is classified as having only a sliding movement.
- (2) Attention is drawn to the definitions following the title of class E05.

FASTENING DEVICES

characterised by the way the bolt is
moved..... 1/00 5/00
specially for holding wings open..... 17/00, 19/00

specially adapted for two wings..... 7/00
**ARRANGEMENT OF FASTENING,
SECURING, OR LOCKING DEVICES** 9/00, 21/00

**Bolts, latches, or equivalent wing-fastening devices,
characterised by special way of movement, e.g. moving**

rectilinearly, pivotally, or rotatively (devices released
automatically by pull or pressure on the wing E05C 19/02; hasps
E05C 19/08; hook fastenings E05C 19/10)

1/00 Fastening devices with bolts moving rectilinearly

- 1/02 . without latching action
- 1/04 . . with operating handle or equivalent member rigid
with the bolt
- 1/06 . . with operating handle or equivalent member
moving otherwise than rigidly with the bolt
- 1/08 . with latching action
- 1/10 . . with operating handle or equivalent member rigid
with the latch
- 1/12 . . with operating handle or equivalent member
moving otherwise than rigidly with the latch
- 1/14 . . . the handle or member moving essentially
towards, or away from, the plane of the wing or
frame
- 1/16 . . . the handle or member moving essentially in a
plane substantially parallel to the wing

3/00 Fastening devices with bolts moving pivotally or rotatively

- 3/02 . without latching action
- 3/04 . . with operating handle or equivalent member rigid
with the bolt
- 3/06 . . with operating handle or equivalent member
moving otherwise than rigidly with the bolt
- 3/08 . . . the handle or member moving essentially
towards, or away from, the plane of the wing or
frame
- 3/10 . . . the handle or member moving essentially in a
plane substantially parallel to the wing
- 3/12 . with latching action (devices in which the securing
part is formed or merely carried by a spring and
moves only by distortion of the spring, e.g. snaps,
E05C 19/06)
- 3/14 . . with operating handle or equivalent member rigid
with the latch
- 3/16 . . with operating handle or equivalent member
moving otherwise than rigidly with the latch
- 3/22 . . . the bolt being spring-controlled
- 3/24 in the form of a bifurcated member

- 3/26 engaging a stud-like keeper
- 3/28 with simultaneously-operating double
bolts
- 3/30 in the form of a hook
- 3/32 engaging a hooked keeper (E05C 3/34
takes precedence)
- 3/34 with simultaneously-operating double
bolts
- 3/36 in the form of a rotary gear
- 3/38 with bolts engaging a hooked keeper
(E05C 3/24, E05C 3/30, E05C 3/36 take
precedence)
- 3/40 with bolts engaging a stud-like keeper
(E05C 3/24, E05C 3/30, E05C 3/36 take
precedence)

5/00 Fastening devices with bolts moving otherwise than only rectilinearly and only pivotally or rotatively

- 5/02 . both moving axially and turning about their axes to
secure the wing
- 5/04 . . performing both movements simultaneously,
e.g. screwing into a keeper

7/00 Fastening devices specially adapted for two wings

In this group, if a fastening device merely secures one wing to another wing which is already closed it is not regarded as specially adapted for two wings.

- 7/02 . for wings which lie one behind the other when closed
- 7/04 . for wings which abut when closed
- 7/06 . . a fastening device for one wing being actuated or
controlled by closing another wing

9/00 Arrangement of simultaneously-actuated bolts or other securing devices at well-separated positions on the same wing (essentially involving locking means E05B 63/14; similar constructions for engineering closures for pressure vessels, in general F16J 13/08)

- 9/02 . with one sliding bar for fastening when moved in one
direction and unfastening when moved in opposite
direction; with two sliding bars moved in the same
direction when fastening or unfastening [4]

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- 9/04 . with two sliding bars moved in opposite directions when fastening or unfastening
- 9/06 . with three or more sliding bars
- 9/08 . with a rotary bar for actuating the fastening means
- 9/10 . Actuating mechanisms for bars
- 9/12 . . with gears and racks
- 9/14 . . with pins engaging slots
- 9/16 . . with crank pins and connecting rods
- 9/18 . Details of fastening means or of fixed retaining means for the ends of bars
- 9/20 . Coupling means for sliding bars, rods, or cables [4]
- 9/22 . Guides for sliding bars, rods, or cables (corner guides E05C 9/24) [4]
- 9/24 . Means for transmitting movements between vertical and horizontal sliding bars, rods, or cables, e.g. corner guides (means for transmitting movements between vertical and horizontal sliding bars, rods, or cables, for moving wings into open or closed position E05F 7/08) [4]
- 17/00 Devices for holding wings open; Devices for limiting opening of wings or for holding wings open by a movable member extending between frame and wing; Braking devices, stops or buffers, combined therewith** (combined with hinges E05D 11/00; combined with operating apparatus for wings E05F; other braking devices, stops, buffers E05F 5/00) [4]
- 17/02 . by mechanical means (E05C 17/60 takes precedence) [4]
- 17/04 . . with a movable bar or equivalent member extending between frame and wing
- 17/06 . . . releasable to allow further opening only when the wing is nearly closed
- 17/08 . . . with special means for release, e.g. automatic release by further opening
- 17/10 . . . incorporating a special device for securing the wing in the closed position
- 17/12 . . . consisting of a single rod
- 17/14 Hook and eye, or equivalent
- 17/16 pivoted only at one end and having an elongated slot
- 17/18 pivoted only at one end and having a row of holes, notches, or pins
- 17/20 sliding through a guide (E05C 17/18 takes precedence)
- 17/22 with braking, clamping or securing means in the guide [4]
- 17/24 pivoted at one end, and with the other end running along a guide member
- 17/26 with braking, clamping or securing means at the pivot of the rod [4]
- 17/28 with braking, clamping or securing means at the connection to the guide member [4]
- 17/30 . . . of extensible, e.g. telescopic, construction (flexible members E05C 17/36)
- 17/32 . . . consisting of two or more pivoted rods
- 17/34 with means for holding in more than one position
- 17/36 . . . comprising a flexible member, e.g. chains
- 17/38 . . with a curved rail rigid with the frame for engagement with means on the wing, or *vice versa*
- 17/40 . . Bars or like parts connecting a right wing with a left wing which move against each other when being closed
- 17/42 . . connecting exterior and interior wings
- 17/44 . . with a device carried on the wing for frictional or like engagement with a fixed flat surface, e.g. retractable feet
- 17/46 . . in which the wing or a member fixed thereon is engaged by a movable fastening member in a fixed position; in which a movable fastening member mounted on the wing engages a stationary member [4]
- 17/48 . . . comprising a sliding securing member
- 17/50 . . . comprising a single pivoted securing member
- 17/52 . . . comprising a snap, catch, or the like
- 17/54 . . Portable devices, e.g. wedges
- 17/56 . by magnetic or electromagnetic attraction (operation of locks or fasteners by electric or magnetic means E05B 47/00) [2]
- 17/58 . operated or controlled from a distance
- 17/60 . holding sliding wings open [4]
- 17/62 . . using notches [4]
- 17/64 . . by friction [4]
- 19/00 Other devices specially designed for securing wings** (movable draft sealings additionally used for bolting E06B 7/18) [2]
- 19/02 . Automatic catches, i.e. released by pull or pressure on the wing (E05C 19/06 takes precedence)
- 19/04 . . Ball or roller catches
- 19/06 . in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps
- 19/08 . Hasps; Hasp fastenings; Spring catches therefor
- 19/10 . Hook fastenings; Fastenings in which a link engages a fixed hook-like member
- 19/12 . . pivotally mounted
- 19/14 . . . with toggle action
- 19/16 . Devices holding the wing by magnetic or electromagnetic attraction
- 19/18 . Portable devices specially adapted for securing wings (preventing operation of handles E05B 13/00)
- 21/00 Arrangement or combinations of wing fastening, securing, or holding devices, not covered by any single one of main groups E05C 1/00 E05C 19/00**
- 21/02 . for holding a wing closed only