

ECLA EUROPEAN CLASSIFICATION

E05C

BOLTS OR FASTENING DEVICES FOR WINGS, SPECIALLY FOR DOORS OR WINDOWS (latching means for sideboard or tailgate structures for vehicles B62D, [N: [B62D33/02](#)]; 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)

Notes

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 definition following the title of class E05

Guide heading:

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 E05C19/02; hasps E05C19/08; hook fastenings E05C19/10)

E05C1/00

Fastening devices with bolts moving rectilinearly

E05C1/00B

- . [N: perpendicular to the surface on which the fastener is mounted]

E05C1/00C

- . [N: parallel to the surface on which the fastener is mounted]

E05C1/00C2

- . . [N: parallel to the wing edge]

E05C1/02

- . without latching action

E05C1/04

- . . with operating handle or equivalent member rigid with the bolt

E05C1/06

- . . with operating handle or equivalent member moving otherwise than rigidly with the bolt

E05C1/06B

- . . . [N: flush]

E05C1/08

- . with latching action

E05C1/08K

- . . [N: With means for assisting depression of the latch bolt during latching]

E05C1/10

- . . with operating handle or equivalent member rigid with the latch

E05C1/12

- . . with operating handle or equivalent member moving otherwise than rigidly with the latch

E05C1/14

- . . . the handle or member moving essentially towards or away from the plane of the wing or frame

E05C1/14B

- [N: flush]

E05C1/16

- . . . the handle or member moving essentially in a plane substantially parallel to the wing or frame

E05C1/16C

- [N: Cylindrical or tubular latches]

E05C1/16S

- [N: with sliding handle]

- E05C3/00** **Fastening devices with bolts moving pivotally or rotatively**
- E05C3/00A . [N: sliding in an arcuate guide or the like (locks with circular bolts [E05B63/12D](#))]
[C9509]
 - E05C3/00B . [N: about an axis perpendicular to the surface on which the fastener is mounted]
 - E05C3/00C . [N: about an axis parallel to the surface on which the fastener is mounted]
 - E05C3/00C2 . . [N: parallel to the wing edge]
 - E05C3/02 . without latching action
 - E05C3/04 . . with operating handle or equivalent member rigid with the bolt
 - E05C3/04B . . . [N: rotating about an axis perpendicular to the surface on which the fastener is
mounted]
 - E05C3/04B2 [N: the handle being at one side, the bolt at the other side or inside the wing]
 - E05C3/04B3 [N: the pivot being between bolt and handle ([E05C3/04B2](#) takes
precedence)]
 - E05C3/04B4 [N: the bolt and handle being at the same side of the pivot ([E05C3/04B5](#),
[E05C3/04B6](#) take precedence)]
 - E05C3/04B5 [N: in the form of a hook (hook-like fastenings [E05C19/10](#))] [C9509]
 - E05C3/04B6 [N: in the form of a crescent-shaped cam (hooks [E05C3/04B5](#))]
 - E05C3/04C . . . [N: rotating about an axis parallel to the surface on which the fastener is
mounted]
 - E05C3/04C2 [N: parallel to the wing edge]
 - E05C3/06 . . with operating handle or equivalent member moving otherwise than rigidly with the
bolt
 - E05C3/08 . . . the handle or member moving essentially towards or away from the plane of the
wing or frame
 - E05C3/10 . . . the handle or member moving essentially in a plane substantially parallel to the
wing [N: or frame]
 - E05C3/12 . 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, [E05C19/06](#); tilt-plate
latches [E05C19/00E](#))
 - E05C3/12B . . [N: flush]
 - E05C3/12D . . [N: with latch under compression force between its pivot and the striker
([E05C3/12B](#), [E05C3/14](#), [E05C3/16](#) and [E05B65/08C8](#) take precedence)]
 - E05C3/14 . . with operating handle or equivalent member rigid with the latch [N: ([E05C3/12B](#)
takes precedence)]
 - E05C3/14D . . . [N: pivoting about an axis perpendicular to the wing]
 - E05C3/16 . . with operating handle or equivalent member moving otherwise than rigidly with the
latch [N: ([E05C3/12B](#) takes precedence)]
 - E05C3/16B . . . [N: the handle or member moving essentially towards or away of the plane of
the wing or frame ([E05C3/16D](#) takes precedence)]
 - E05C3/16C . . . [N: the handle or member moving substantially parallel to the wing or frame
([E05C3/16D](#) takes precedence)]
 - E05C3/16D . . . [N: the latch pivoting about an axis perpendicular to the wing]

- E05C3/22 . . . the bolt being spring controlled [N1205]
- E05C3/24 in the form of a bifurcated member [N: (automatic catches with a bifurcated latch E05C19/02C; locks with a bifurcated bolt E05B65/00M2, E05B85/243)] [N1205]
- E05C3/26 engaging a stud-like keeper (stud-like keepers per se E05B15/02E3B) [N1205]
- E05C3/28 with simultaneously operating double bolts [N: (vehicle locks with a pair of bifurcated bolts E05B85/245)] [N1205]
- E05C3/30 in the form of a hook [N: (hook-like fastenings E05C19/10; locks for sliding wings with pivoting bolts E05B65/08B, E05B65/08C)] [C9509]
- E05C3/34 with simultaneously operating double bolts [N: (locks for sliding wings with bolts pivoting about an axis parallel to the wings E05B65/08C, comprising simultaneously pivoting double hook-like locking members E05B65/08D)] [C9509]
- E05C3/36 in the form of a rotary gear [N: (vehicle door locks E05B85/28)] [N1205]
- E05C3/38 with bolts engaging a hooked keeper (E05C3/24, E05C3/30, E05C3/36 take precedence)
- E05C3/40 with bolt engaging a stud-like keeper (E05C3/24, E05C3/30, E05C3/36 take precedence) [N1205]

E05C5/00 **Fastening devices with bolts moving otherwise than only rectilinearly and only pivotally or rotatively** [N: (E05C9/18B2B, E05C19/00F, E05B63/12E, E05B63/12F, E05B63/12G take precedence; pivotally-mounted hooks-like fastenings with toggle action E05C19/14; bayonet-type locks E05B63/12E; locks for sliding wings, with additional movement E05B65/08B2)] [C9509]

- E05C5/02 . . both moving axially and turning about their axis to secure the wing
- E05C5/04 . . . performing both movements simultaneously, e.g. screwing into a keeper

E05C7/00 **Fastening devices specially adapted for two wings**

Note

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

- E05C7/00B . [N: for sluice doors (for nuclear reactors G21C13/028B)]
- E05C7/00C . [N: for "Dutch doors", i.e. upper and lower wings]
- E05C7/02 . for wings which lie one behind the other when closed [N: E05C7/00B takes precedence]
- E05C7/04 . for wings which abut when closed [N: (pillarless vehicle doors E05B83/38)] [N1205]
- E05C7/04A . . Sliding bolts mounted on or in the edge of a normally closed wing of a double-door or -window [N1205]
- E05C7/06 . . a fastening device for one wing being actuated or controlled by closing another wing [N: (locking one vehicle door by shutting another E05B77/52)] [N1205]

E05C9/00 **Arrangements of simultaneously actuated bolts or other securing devices at well-separated positions on the same wing** ([N: Locking, cross or security bars E05C19/00C; locks for safes or the like E05B65/00S; of the vertical-rod type for panic or emergency doors E05B65/10B]; similar constructions for engineering

closures F16J13/08) [N1205]

- E05C9/00A . [N: with arrangements allowing the wing to be slam-shut, e.g. by securing elements with latching action (E05B63/20, E05B63/24 take precedence)] [N1205]
- E05C9/00B . [N: Faceplates (for other locks or fasteners E05B9/00B); Fixing the faceplates to the wing] [N1205]
- E05C9/00C . [N: Details of bars] [N1205]
- E05C9/00E . [N: mounted in an elongate casing on the surface of the wing] [N1208]
- E05C9/02 . 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
- E05C9/02A . . [N: with rack and pinion mechanism] [N1205]
- E05C9/02A2 . . . [N: between a lock cylinder and the bar] [N1205]
- E05C9/02C . . [N: with pins engaging slots] [N1205]
- E05C9/02L . . [N: comprising key-operated locks, e.g. a lock cylinder to drive auxiliary deadbolts or latch bolts (E05C9/02A2 takes precedence)] [N1205]
- E05C9/02S . . [N: externally mounted on the wing, i.e. surface mounted (E05C9/00E takes precedence)] [N1205] [C1208]
- E05C9/04 . with two sliding bars moved in opposite directions when fastening or unfastening
- E05C9/04A . . [N: with rack and pinion mechanism] [N1205]
- E05C9/04C . . [N: with pins engaging slots] [N1205]
- E05C9/04E . . [N: with crank pins and connecting rods] [N1205]
- E05C9/04G . . [N: with inclined surfaces, e.g. spiral or helicoidal] [N1205]
- E05C9/04J . . [N: with two interconnected mechanisms each driving one rod] [N1205]
- E05C9/04L . . [N: comprising key-operated locks, e.g. a lock cylinder to drive auxiliary deadbolts or latch bolts (E05C9/04A2 takes precedence)] [N1205]
- E05C9/04S . . [N: externally mounted on the wing, i.e. surface mounted (E05C9/00E takes precedence)] [N1205] [C1208]
- E05C9/06 . with three or more sliding bars [N: (for watertight doors in bulkheads of vessels B63B43/24, B63B43/32; for safe doors E05B65/00S; covers or similar closures for pressure vessels F16J13/00)]
- E05C9/06B . . [N: extending along three or more sides of the wing or frame (means for transmitting movements between vertical and horizontal bars E05F7/08)]
- E05C9/06B1 . . . [N: Locks for windows or doors specially adapted for tilt and turn] [N1205]
- E05C9/08 . with a rotary bar for actuating the fastening means [N: (E05B65/16B and E05B65/46C4 take precedence; for a plurality of drawers E05B65/46C2D)]
- E05C9/08B . . [N: pivoting about an axis perpendicular to the door (locking bars or the like pivoted about an axis perpendicular to the plane of the wing E05C19/00C3)] [C9509]
- E05C9/10 . Actuating mechanisms for bars [N: (E05C9/02 to E05C9/06 take precedence)]
- E05C9/12 . . with rack and pinion mechanism [N: (E05C9/02A, E05C9/04A take precedence)] [N1205]

- E05C9/14 . . with pin engaging slots [N: (E05C9/02C, E05C9/04C take precedence)] [N1205]
- E05C9/16 . . with crank pins and connecting rods [N: (E05C9/04E takes precedence)] [N1205]

- E05C9/18 . Details of fastening means or of fixed retaining means for the ends of bars
- E05C9/18A . . [N: Keepers] [N9702]
- E05C9/18B . . [N: Fastening means] [N1205]
- E05C9/18B1 . . . [N: performing sliding movements] [N1205]
- E05C9/18B1B [N: perpendicular to actuating bar]
- E05C9/18B1C [N: parallel with actuating bar]
- E05C9/18B1C2 [N: of the roller bolt type]
- E05C9/18B2 . . . [N: performing pivoting movements (E05C9/08 takes precedence)]
- E05C9/18B2B [N: pivotally mounted on the actuation bar]
- E05C9/18B2C [N: pivoting around an axis parallel to the bar] [N1205]

- E05C9/20 . Coupling means for sliding bars, rods, or cables [N: (connecting means between actuating rods for vehicle door locks E05B79/14)]

- E05C9/22 . Guides for sliding bars, rods or cables [N1205]

- E05C9/24 . Means for transmitting movements between vertical and horizontal sliding bars, rods or cables [N: for the fastening of wings], 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 E05F7/08) [N1205]

- E05C17/00** **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 E05D11/00; combined with operating apparatus for wings E05E; other braking devices, stops, buffers E05F5/00)**

- E05C17/00V . [N: Power-actuated devices for limiting the opening of vehicle doors] [N1205]
- E05C17/00V2 . . [N: with means for detecting obstacles outside the doors] [N1205]

- E05C17/02 . by mechanical means (E05C17/60 takes precedence)
- E05C17/02C . . [N: Means acting between hinged edge and frame (E05C17/20B takes precedence)]
- E05C17/04 . . [N: Hinges for the movable bar (E05C17/16B, E05C17/26, E05C17/34F take precedence; hinges in general F16C11/04, E05D)] [C1208]
- E05C17/04B . . . [N: for anchoring the trunk lid of a car while carrying oversize objects (E05C17/36 takes precedence)]
- E05C17/04H . . . [N: Hinges for the movable bar (E05C17/16B, E05C17/26, E05C17/34F take precedence; hinges in general F16C11/04, E05D)]
- E05C17/04P . . . [N: Portable bars or the like, i.e. completely removable (E05C17/04B takes precedence)]
- E05C17/08 . . . with special means for release, e.g. automatic release by further opening [N1205]
- E05C17/08B [N: automatic release by further opening]
- E05C17/12 . . . consisting of a single rod [N1205]

- E05C17/14 Hook and eye, or equivalent
- E05C17/16 pivoted only at one end and having an elongated slot
- E05C17/16B [N: with clamping or securing means at the pivot, e.g. friction hinge]
- E05C17/16S [N: Security devices]
- E05C17/18 pivoted only at one end having a row of holes, notches, or pins
- E05C17/20 sliding through a guide (E05C17/18 takes precedence)
- E05C17/20B [N: concealed, e.g. for vehicles]
- E05C17/20B2 [N: with elastomeric springs to hold wing open] [N1205]
- E05C17/22 with braking, clamping or securing means in the guide[N: (E05C17/20B takes precedence)]
- E05C17/24 pivoted at one end, and with the other end running along a guide member
- E05C17/26 with braking, clamping or securing means at the pivot of the rod
- E05C17/28 with braking, clamping or securing means at the connection to the guide member
- E05C17/30 of extensible, e.g. telescopic, construction (flexible members E05C17/36; [N: locking of telescopic systems in general F16B7/10; lockable telescopic gas springs F16F9/02B5B])
- E05C17/30H [N: with hydraulic locks]
- E05C17/32 consisting of two or more pivoted rods
- E05C17/34 with means for holding in more than one position
- E05C17/34F [N: using friction, e.g. friction hinge]
- E05C17/36 comprising a flexible member, e.g. chains
- E05C17/36B [N: Security chains] [C9509]
- E05C17/38 . . . with a curved rail rigid with the frame for engagement with means on the wing, or vice versa
- E05C17/40 . . . Bars or like parts connecting a right wing with a left wing which move against each other when being closed
- E05C17/42 . . . connecting exterior and interior wings
- E05C17/44 . . . with a device carried on the wing for frictional or like engagement with a fixed flat surface, e.g. [N: for holding wings open or closed by] retractable feet [N: (with wedging action between the wing and a flat surface E05C17/54)] [N1205]
- E05C17/44B [N: of the pivoted lever or eccentric type, e.g. for sliding windows]
- E05C17/44C [N: of the retractable sliding feet type (similar devices for sliding wings E05C17/64)]
- E05C17/46 . . . 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 [N1205]
- E05C17/48 comprising a sliding securing member
- E05C17/50 comprising a single pivoted securing member
- E05C17/50H [N: acting directly on the knob or handle] [N1205]
- E05C17/52 comprising a snap, catch, or the like
- E05C17/52B [N: comprising a suction cup]
- E05C17/54 . . . Portable devices, e.g. wedges; wedges for holding wings open or closed (E05C17/04P takes precedence) [N1205]
- E05C17/56 . . . by magnetic or electromagnetic attraction [N: or operated by electric or electromagnetic means (for closed wings E05C19/16)]; (operation of locks or

ers by electric or magnetic means [E05B47/00](#))

- E05C17/58 . operated or controlled from a distance, [N: e.g. pneumatically ([E05C17/56](#) takes precedence)]
- E05C17/60 . holding sliding wings open [N: ([E05C17/44B](#), [E05C17/54](#) take precedence)]
- E05C17/62 . . using notches
- E05C17/64 . . by friction

- E05C19/00** **Other devices specially designed for securing wings, [N: e.g. with suction cups] (movable draft sealings additionally used for bolting [E06B7/18](#))**

- E05C19/00B . [N: with bolts extending over a considerable extent, e.g. nearly along the whole length of at least one side of the wing (movable sealing strips [E06B7/18](#))] [N1205]
- E05C19/00B2 . . [N: Rotating about a longitudinal axis]
- E05C19/00C . [N: Locking bars, cross bars, security bars (for sliding wings [E05B65/08G](#); for a plurality of drawers [E05B65/46C3](#))] [C9509]
- E05C19/00C2 . . [N: at an angle between door and floor or wall]
- E05C19/00C3 . . [N: pivoted about an axis on the wing, perpendicular to the plane of the wing]
- E05C19/00D . [N: by displacement of the wing substantially in its own plane ([E05F7/02](#) takes precedence)] [N1205]
- E05C19/00E . [N: Latches with wedging action (wedges between wing itself and fixed surface [E05C17/54](#))]
- E05C19/00E2 . . [N: Tilt-plate latches]
- E05C19/00F . [N: Latches with floating bolts, e.g. rings, balls]
- E05C19/02 . Automatic catches, i.e. released by pull or pressure on the wing ([E05C19/06](#) takes precedence; [N: with locking means [E05B63/22](#)])
- E05C19/02B . . [N: Released by pushing in the closing direction]
- E05C19/02C . . [N: with a bifurcated latch]
- E05C19/02D . . [N: with a keeper caught between two pivoting bolts]
- E05C19/02E . . [N: with sliding bolt(s)]
- E05C19/04 . . Ball or roller catches
- E05C19/06 . in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps
- E05C19/06B . . [N: Released by pull or pressure on the wing ([E05C19/02B](#) takes precedence)]
- E05C19/06B2 . . . [N: made of plastics, e.g. hook-and-loop type fastener]
- E05C19/08 . Hasps; Hasp fastenings; Spring catches therefor
- E05C19/10 . Hook fastenings; Fastenings in which a link engages a fixed hook-like member [N1205]
- E05C19/10B . . [N: Butterfly latches] [N1205]

- E05C19/12 . . . pivotally mounted [N: around an axis (E05C3/04B5, E05C3/40 take precedence)] [N1205]
- E05C19/14 . . . with toggle action [N1205]
- E05C19/14B [N: flush]
- E05C19/16 . Device holding the wing by magnetic or electromagnetic attraction [N: (E05C17/56 takes precedence)]
- E05C19/16B . . [N: magnetic gaskets]
- E05C19/16C . . [N: a movable bolt being held in the striker by a permanent magnet]
- E05C19/16D . . [N: released by pushing in the closing direction]
- E05C19/16E . . [N: electromagnetic]
- E05C19/16E2 . . . [N: a movable bolt being electromagnetically held in the striker by electromagnetic attraction]
- E05C19/18 . Portable devices specially adapted for securing wings ([N: E05C17/54, E05C19/00C, E05B65/08P, E05B67/00 take precedence]; preventing operation of handles E05B13/00)
- E05C19/18A . . [N: insertable in the gap between the wing and the frame or in the gap between a lock and its striker, e.g. for cooperation with the striker] [N9608]
- E05C19/18B . . [N: a portable member cooperating with a fixed member or an opening on the wing or the frame, for locking the wing] [N9608]
- E05C19/18C . . [N: with a pair of hooks, which are movable towards each other for grasping of an element on the wing, respectively on the frame, or for grasping of an element on each of the wings forming a double door] [N9608]
- E05C19/18D . . [N: Removably mounted securing devices, e.g. devices clamped to the wing or the frame (E05C19/18A to E05C19/18C take precedence)] [N9608]
- E05C21/00** **Arrangements or combinations of wing fastening, securing, or holding devices, not covered by a single preceding main group; [N: Locking kits]**
- E05C21/00A . [N: Provisional arrangements between door and frame for holding vehicle doors closed or partially open during manufacturing or maintenance] [N1205]