E05 LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES

Note(s)

In this class, the following terms are used with the meanings indicated:

- "wing" is a general term for swingable, slidable, or otherwise movable doors or windows. This term also includes other movable structures such as drawers, lids of chests, car boots, or car bonnets, to which the operating, mounting, latching, or locking means covered by this class may be applied;
- "frame" means any member to which a wing may be held by a fastening device. It does not include a framework forming part of the wing, but it may be another wing;
- "lock" means primarily a device for releasing or securing any member, which requires a key or a permutation mechanism for release. In groups E05B 1/00-E05B 9/00, E05B 13/00-E05B 17/00, E05B 39/00-E05B 47/00, E05B 51/00, E05B 53/00, E05B 63/00 and E05B 65/00 however, the term "lock" may include other fastening devices;
- "bolt" means a sliding, pivoted, or otherwise movable member such as is normally carried by a door to hold it shut by engagement with a keeper on the frame. It may be operated by hand directly or through mechanism or by a key; it may be a latch (see below);
- "latch" means a bolt arranged to be moved to the releasing position against the force of a spring, or some other returning force, when a wing meets the frame on closing, so that it does not have to be operated by hand to secure the wing, but only to open it;
- "hasp" means a member hinged to the frame or wing so that it can be moved towards the face of the wing or frame and secured thereto, e.g. by a turn-button, by a padlock and staple.

E05B LOCKS; ACCESSORIES THEREFOR; HANDCUFFS

Note(s) [2014.01]

- 1. Operating or controlling of locks for vehicle wings are classified in groups E05B 77/00-E05B 81/00.
- 2. Knobs, handles or press buttons for locks of vehicle wings are classified in groups E05B 79/00-E05B 85/00.

Subclass index

LOCKS WITH TUMBLERS	
Moved by rotation of the key Set by pushing the key in	21/00, 23/00, 25/00
Set by pushing the key in	27/00-33/00
LOCKS FOR USE WITH SPECIAL KEYS OR KEY SETS	35/00
PERMUTATION OR PUZZLE LOCKS	37/00, 49/00
PADLOCKS	67/00, 37/00
LOCKS WITH INDICATING OR TIMING DEVICES	
LOCKS WITH PROVISION FOR LATCHING	55/00-61/00
LOCKS WITH OTHER SPECIAL STRUCTURAL FEATURES	63/00
LOCKS FOR SPECIAL USE	
LOCKS FOR VEHICLES	77/00-85/00
OPERATION OR CONTROL OF LOCKS	47/00-53/00
OPERATION OR CONTROL OF LOCKS FOR VEHICLES	77/00-81/00
DETAILS OR ACCESSORIES OF LOCKS OR THE LIKE, KEYS	
Knobs or handles	1/00-7/00
Knobs or handles for vehicles	79/00, 85/00
Other details or accessories of locks or latches	9/00-17/00
Keys	19/00
Keys	75/00

Details or accessories of locks or the like; Keys

- 1/00 Knobs or handles for wings (for furniture A47B 95/02); Knobs, handles, or press buttons for locks or latches on wings (E05B 5/00, E05B 7/00 take precedence) [1, 2006.01]
- 1/02 of solid material **[1, 2006.01]**

- 1/04 with inner rigid member and outer cover or covers [1, 2006.01]
- 1/06 of sheet material **[1, 2006.01]**

3/00 Fastening handles to lock or latch parts [1, 2006.01]

3/02 • Fastening handles to the spindle by pinning or riveting **[1, 2006.01]**

E05B

3/04	• Fastening the handle shank to the spindle by screws,
	springs, or snap bolts [1, 2006.01]
3/06	• by means arranged in or on the rose [1, 2006.01]
3/08	• Fastening the spindle to the follower [1, 2006.01]
3/10	 by a bipartite or cleft spindle in the follower or in the handle shank [1, 2006.01]
5/00	Handles completely let into the surface of the wing [1, 2006.01]
5/02	 able to be turned outwards before operation [1, 2006.01]
5/04	 able to be shifted parallel to the wing after being pulled out [1, 2006.01]
7/00	Handles pivoted about an axis parallel to the wing (E05B 5/00 takes precedence) [1, 2006.01]
9/00	Lock casings or latch-mechanism casings (padlock casings E05B 67/02; for vehicles E05B 79/04, E05B 85/02) [1, 2006.01]
9/02	• of latch-bolt locks [1, 2006.01]
9/04	• of cylinder locks [1, 2006.01]
9/06	• Fastening together the parts of casings [1, 2006.01]
9/08	• Fastening the casings of latch-bolt locks or cylinder locks to the wing [1, 2006.01]
9/10	• Coupling devices for the two halves of double cylinder locks [1, 2006.01]
11/00	Devices preventing keys from being removed from the lock [1, 2006.01]
11/02	• before the wing is locked [1, 2006.01]
11/04	 before the wing is closed [1, 2006.01]
11/06	• for catching skeleton or incorrect keys [1, 2006.01]
13/00	Devices preventing the key or the handle or both from being used [1, 2006.01]
13/00 13/02	
13/02 13/04	 from being used [1, 2006.01] shaped as sectors of escutcheons, arranged in the keyhole [1, 2006.01] shaped as fork-like implements grasping and fixing the key [1, 2006.01]
13/02	 from being used [1, 2006.01] shaped as sectors of escutcheons, arranged in the keyhole [1, 2006.01] shaped as fork-like implements grasping and fixing the key [1, 2006.01] shaped as bolt detents arranged in the path of motion of the key bit [1, 2006.01]
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13/02 13/04 13/06	 from being used [1, 2006.01] shaped as sectors of escutcheons, arranged in the keyhole [1, 2006.01] shaped as fork-like implements grasping and fixing the key [1, 2006.01] shaped as bolt detents arranged in the path of motion of the key bit [1, 2006.01] formed by longitudinal bolt or cross-bar connecting
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13/02 13/04 13/06 13/08 13/10	 from being used [1, 2006.01] shaped as sectors of escutcheons, arranged in the keyhole [1, 2006.01] shaped as fork-like implements grasping and fixing the key [1, 2006.01] shaped as bolt detents arranged in the path of motion of the key bit [1, 2006.01] formed by longitudinal bolt or cross-bar connecting the handle with a stationary lock part or fitting [1, 2006.01] formed by a lock arranged in the handle [1, 2006.01] Other details of locks; Parts for engagement by bolts of fastening devices (fastening devices for wings other
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13/02 13/04 13/06 13/08 13/10 15/00	 from being used [1, 2006.01] shaped as sectors of escutcheons, arranged in the keyhole [1, 2006.01] shaped as fork-like implements grasping and fixing the key [1, 2006.01] shaped as bolt detents arranged in the path of motion of the key bit [1, 2006.01] formed by longitudinal bolt or cross-bar connecting the handle with a stationary lock part or fitting [1, 2006.01] formed by a lock arranged in the handle [1, 2006.01] Other details of locks; Parts for engagement by bolts of fastening devices (fastening devices for wings other than locks or associated with locks E05C) [1, 2006.01] Striking-plates; Keepers; Bolt staples; Escutcheons [1, 2006.01]
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13/02 13/04 13/06 13/08 13/10 13/10 15/00 15/02 15/04 15/08 15/10	 from being used [1, 2006.01] shaped as sectors of escutcheons, arranged in the keyhole [1, 2006.01] shaped as fork-like implements grasping and fixing the key [1, 2006.01] shaped as bolt detents arranged in the path of motion of the key bit [1, 2006.01] formed by longitudinal bolt or cross-bar connecting the handle with a stationary lock part or fitting [1, 2006.01] formed by a lock arranged in the handle [1, 2006.01] Other details of locks; Parts for engagement by bolts of fastening devices (fastening devices for wings other than locks or associated with locks E05C) [1, 2006.01] Striking-plates; Keepers; Bolt staples; Escutcheons [1, 2006.01] Lock wards [1, 2006.01] Key guides; Key pins [1, 2006.01] Bolts of locks or night latches [1, 2006.01]
13/02 13/04 13/06 13/08 13/10 13/10 15/00 15/02 15/04 15/08 15/10 15/12	 from being used [1, 2006.01] shaped as sectors of escutcheons, arranged in the keyhole [1, 2006.01] shaped as fork-like implements grasping and fixing the key [1, 2006.01] shaped as bolt detents arranged in the path of motion of the key bit [1, 2006.01] formed by longitudinal bolt or cross-bar connecting the handle with a stationary lock part or fitting [1, 2006.01] formed by a lock arranged in the handle [1, 2006.01] Other details of locks; Parts for engagement by bolts of fastening devices (fastening devices for wings other than locks or associated with locks E05C) [1, 2006.01] Striking-plates; Keepers; Bolt staples; Escutcheons [1, 2006.01] Spring arrangements in locks [1, 2006.01] Key guides; Key pins [1, 2006.01] Bolts of locks or night latches [1, 2006.01] Pins or detents for locking bolts [1, 2006.01]
13/02 13/04 13/06 13/08 13/10 15/00 15/02 15/04 15/08 15/10 15/12 15/14	 from being used [1, 2006.01] shaped as sectors of escutcheons, arranged in the keyhole [1, 2006.01] shaped as fork-like implements grasping and fixing the key [1, 2006.01] shaped as bolt detents arranged in the path of motion of the key bit [1, 2006.01] formed by longitudinal bolt or cross-bar connecting the handle with a stationary lock part or fitting [1, 2006.01] formed by a lock arranged in the handle [1, 2006.01] Other details of locks; Parts for engagement by bolts of fastening devices (fastening devices for wings other than locks or associated with locks E05C) [1, 2006.01] Striking-plates; Keepers; Bolt staples; Escutcheons [1, 2006.01] Spring arrangements in locks [1, 2006.01] Lock wards [1, 2006.01] Bolts of locks or night latches [1, 2006.01] Pins or detents for locking bolts [1, 2006.01] Tumblers [1, 2006.01] Use of special materials for parts of locks (for

17/02	•	Coupling devices for double doors, i.e. two doors one behind the other and hinged on the same side [1, 2006.01]
17/04	•	Devices for coupling the turning cylinder of a single or double cylinder lock with the bolt-operating member [1, 2006.01]
17/06	•	Templates for marking the position of apertures in

- Templates for marking the position of apertures in fittings of wings [1, 2006.01]
- 17/08 Lubricating devices **[1, 2006.01]**
- 17/10 Illuminating devices on, or for, locks or keys **[1, 2006.01]**
- 17/12 Devices for removing keys stuck in the lock **[1, 2006.01]**
- 17/14 Closures or guards for keyholes [1, 2006.01]
- 17/16 • shaped as pins or key bits **[1, 2006.01]**
- 17/18 • shaped as lids or slides **[1, 2006.01]**
- Means independent of the locking mechanism for preventing unauthorised opening, e.g. for securing the bolt in the fastening position (pins or detents E05B 15/12) [4, 2006.01]
- Means for operating or controlling lock or fastening device accessories, i.e. other than the fastening members, e.g. switches, indicators [4, 2006.01]
- **19/00** Keys; Accessories therefor (making keys, <u>see</u> the relevant places, e.g. B21D 53/42; milling grooves in keys B23C 3/35) **[1, 2006.01]**
- 19/02 Construction of the shank of the key [1, 2006.01]
- 19/04 Construction of the bow of the key; Construction of flat keys [1, 2006.01]
- 19/06 Key bits; Flat key bits [1, 2006.01]
- 19/08 • Special forms of key bits, e.g. double key bits, folding key bits [1, 2006.01]
- 19/10 Fastening the key bit and bow on the shank of the key **[1, 2006.01]**
- 19/12 Keys with several bits moving relatively to each other when in use **[1, 2006.01]**
- 19/14 Double keys [1, 2006.01]
- 19/16 Extremely thin keys acting without rotation **[1, 2006.01]**
- 19/18 Keys adjustable before use [1, 2006.01]
- 19/20 Skeleton keys; Devices for picking locks; Other devices for similar purposes **[1, 2006.01]**
- 19/22 Keys with devices for indicating whether the last operation was locking or unlocking **[1, 2006.01]**
- 19/24 Key-distinguishing marks **[1, 2006.01]**
- 19/26 Use of special materials for keys [1, 2006.01]

Locks with rotary keys moving lamelliform tumblers perpendicular to the key

- 21/00 Locks with rotary keys moving lamelliform tumblers perpendicular to the key, in which the tumblers do not follow the movement of the bolt [1, 2006.01]
- 21/02 with identical tumblers **[1, 2006.01]**
- 21/04 with stop pins on the tumbler (E05B 21/02 takes precedence) [1, 2006.01]
- 21/06 Cylinder locks, e.g. protector locks [1, 2006.01]
- 23/00 Locks with rotary keys moving lamelliform tumblers perpendicular to the key, in which the tumblers follow the movement of the bolt [1, 2006.01]
- 25/00 Locks with rotary keys moving lamelliform tumblers perpendicular to the key, characterised by the tumblers [1, 2006.01]

E05B

with tumbler discs on a single axis, all the discs being

	37/08	 with tumbler discs on a single axis, all the discs being adjustable by a rotary knob which is not shifted [1, 2006.01]
	37/10	• • in padlocks [1, 2006.01]
	37/12	• with tumbler discs on several axes [1, 2006.01]
	37/14	• • in padlocks [1, 2006.01]
	37/16	• with two or more push or pull knobs, slides, or the like [1, 2006.01]
	37/18	• • in padlocks [1, 2006.01]
	37/20	• Puzzle locks [1, 2006.01]
	37/22	• • in padlocks [1, 2006.01]
	<u>Locks wi</u>	th indicating or timing devices
set	39/00	Locks giving indication of unauthorised unlocking [1, 2006.01]
	39/02	• with destructible seal closures or paper closures (seals <u>per se</u> G09F 3/00) [1, 4, 2006.01]
	39/04	• with counting or registering devices [1, 2006.01]
	41/00	Locks with visible indication as to whether the lock is locked or unlocked [1, 2006.01]
5	43/00	Time locks (clocks or clock mechanisms with attached or built-in means operating any device at preselected times or after a predetermined time interval G04C 23/00) [1, 2006.01]
	45/00	Alarm locks (alarm devices actuated by tampering with fastenings in general G08B) [1, 2006.01]
	45/02	• with mechanically-operated bells [1, 2006.01]
		• with detonating alarm devices [1, 2006.01]
	45/04	
]	45/04 45/06	• Electric alarm locks [1, 2006.01]
]		-
]	45/06	 Electric alarm locks [1, 2006.01] with contact making inside the lock or in the
]	45/06 45/08	 Electric alarm locks [1, 2006.01] with contact making inside the lock or in the striking plate [1, 2006.01]
]	45/06 45/08 45/10	 Electric alarm locks [1, 2006.01] with contact making inside the lock or in the striking plate [1, 2006.01] by introducing the key [1, 2006.01]
] Ing ner	45/06 45/08 45/10 45/12 45/14	 Electric alarm locks [1, 2006.01] with contact making inside the lock or in the striking plate [1, 2006.01] by introducing the key [1, 2006.01] by movement of the bolt [1, 2006.01] with contact making outside the lock [1, 2006.01]
0	45/06 45/08 45/10 45/12 45/14 Operatio	 Electric alarm locks [1, 2006.01] with contact making inside the lock or in the striking plate [1, 2006.01] by introducing the key [1, 2006.01] by movement of the bolt [1, 2006.01] with contact making outside the lock [1, 2006.01] with contact making outside the lock [1, 2006.01] n or control of locks by non-mechanical means, e.g. istance Operating or controlling locks or other fastening devices by electric or magnetic means (electric permutation locks E05B 49/00; holding in open position or limiting movement of wings by magnetic or electromagnetic attraction E05C 17/56; key switches
0	45/06 45/08 45/10 45/12 45/14 Operatio from a di	 Electric alarm locks [1, 2006.01] with contact making inside the lock or in the striking plate [1, 2006.01] by introducing the key [1, 2006.01] by movement of the bolt [1, 2006.01] with contact making outside the lock [1, 2006.01] with contact making outside the lock [1, 2006.01] n or control of locks by non-mechanical means, e.g. istance Operating or controlling locks or other fastening devices by electric or magnetic means (electric permutation locks E05B 49/00; holding in open position or limiting movement of wings by magnetic or
0	45/06 45/08 45/10 45/12 45/14 Operatio from a di 47/00	 Electric alarm locks [1, 2006.01] with contact making inside the lock or in the striking plate [1, 2006.01] by introducing the key [1, 2006.01] by movement of the bolt [1, 2006.01] with contact making outside the lock [1, 2006.01] with contact making outside the lock [1, 2006.01] n or control of locks by non-mechanical means, e.g. istance Operating or controlling locks or other fastening devices by electric or magnetic means (electric permutation locks E05B 49/00; holding in open position or limiting movement of wings by magnetic or electromagnetic attraction E05C 17/56; key switches H01H 27/00) [1, 2, 2006.01] Adaptation of locks, latches, or parts thereof, for movement of the bolt by electromagnetic

37/08

- Controlling mechanically-operated bolts by electromagnetically-operated detents [1, 2006.01]
- 47/08 • the bolt being withdrawn by a spring which is stressed by closing the wing **[1, 2006.01]**
- 49/00 Electric permutation locks; Circuits therefor [1, 2006.01]
- 49/02 with electrical arrangements inside the lock **[1, 2006.01]**
- 49/04 with electrical arrangements outside the lock **[1, 2006.01]**
- 51/00 Operating or controlling locks or other fastening devices by other non-mechanical means [1, 2006.01]
- 51/02 by pneumatic or hydraulic means **[1, 2006.01]**

- with tumblers in the cut-out of which the key bit is moved [1, 2006.01]
 with tumblers in which the stop pin is guided from
- one locked position to the other in an inclined direction **[1, 2006.01]**
- with tumblers in which the stop pin is guided from one locked position to the other along a curved path [1, 2006.01]
- with tumblers with movable pawls engaging the key [1, 2006.01]
- 25/10 with tumblers formed to engage one another to determine their unlocked position **[1, 2006.01]**

Locks of which the tumblers are set by pushing the key in

27/00	Cylinder locks with tumbler pins or balls that are set by pushing the key in [1, 2006.01]
27/02	• operated by the edge of the key [1, 2006.01]
27/04	• • arranged radially in one row [1, 2006.01]
27/06	 arranged radially in more than one row [1, 2006.01]
27/08	• • arranged axially [1, 2006.01]
27/10	• operated by other surfaces of the key, e.g. openings receiving projections on the tumblers [1, 2006.01]
29/00	Cylinder locks with plate tumblers that are set by pushing the key in [1, 2006.01]
29/02	• operated by the edge of the key [1, 2006.01]
29/04	• • arranged singly [1, 2006.01]
29/06	• • arranged in pairs [1, 2006.01]
29/08	• operated by other surfaces of the key [1, 2006.01]
29/10	• • operated by a curved groove or slot [1, 2006.01]
29/12	• • operated by a curved rib [1, 2006.01]
29/14	• with both axially and radially arranged plate tumblers [1, 2006.01]
31/00	Cylinder locks with both tumbler pins or balls and plate tumblers that are set by pushing the key in [1, 2006.01]

33/00 Cylinder locks with tumblers that are set by pushing the key in, in which the bolt is moved by means other than the key [1, 2006.01]

35/00	Locks for use with special keys or a plurality of keys [1, 2006.01]
35/02	• which can be shifted laterally [1, 2006.01]
35/04	• for pull keys [1, 2006.01]
35/06	• for screw keys [1, 2006.01]
35/08	 operable by a plurality of keys [1, 2006.01]
35/10	• • with master and pass keys [1, 2006.01]
35/12	 requiring the use of two keys, e.g. safe-deposit locks [1, 2006.01]
35/14	• with keys of which different parts operate separate mechanisms [1, 2006.01]
37/00	Permutation locks (electric permutation locks E05B 49/00; for bicycles E05B 71/02); Puzzle
0.5 /0.0	locks [1, 2006.01]
37/02	 with tumbler discs or rings arranged on a single axis, each disc being adjustable independently of the others [1, 2006.01]
37/04	• with tumbler discs on a single axis, all the discs being adjustable by rotating a shiftable knob [1, 2006.01]
37/06	• • in padlocks [1, 2006.01]

53/00 Operation or control of locks by mechanical transmissions, e.g. from a distance [1, 2006.01]

Locks with provision for latching

55/00	Locks in which a sliding latch is used also as a locking bolt [1, 2006.01]
55/02	 the bolt being secured by the tumbler [1, 2006.01]
55/04	 the bolt being secured by the cross-bar or the turnbuckle and the handle being locked [1, 2006.01]
55/06	 the handle being disconnected [1, 2006.01]
55/08	• the bolt being secured by transverse bolts [1, 2006.01]
55/10	• • without securing the bolt [1, 2006.01]
55/12	• the bolt being secured by the operation of a hidden parallel member [1, 2006.01]
55/14	 the bolt being secured by the operation of a wing handle, or by means in the wing handle or knob [1, 2006.01]
55/16	• • merely by normal use of the handle on one side of the wing [1, 2006.01]
57/00	Locks in which a pivoted latch is used also as locking means [1, 2006.01]
59/00	Locks with latches separate from the lock-bolts, or with a plurality of latches or lock-bolts [1, 2006.01]
59/02	• with arrangements for securing the latch while shooting the lock-bolt [1, 2006.01]
59/04	 Locks in which the latch is moved by a lock-bolt, or the lock-bolt by a latch, or one latch by another, or the like [1, 2006.01]
59/06	• with a lock-bolt slidable in the latch [1, 2006.01]
C1 /00	Other locks with provision for latching [1, 2006.01]
61/00	Other locks with provision for latching [1, 2000.01]
	th special structural characteristics or for special use
Locks wit	 th special structural characteristics or for special use Locks with special structural characteristics [1, 2006.01] without springs [1, 2006.01]
<u>Locks wit</u> 63/00	 th special structural characteristics or for special use Locks with special structural characteristics [1, 2006.01] without springs [1, 2006.01] for alternative use on the right-hand or left-hand side of wings [1, 2006.01]
Locks with 63/00 63/02 63/04 63/06	 th special structural characteristics or for special use Locks with special structural characteristics [1, 2006.01] without springs [1, 2006.01] for alternative use on the right-hand or left-hand side of wings [1, 2006.01] with lengthwise-adjustable bolts [1, 2006.01]
Locks wir 63/00 63/02 63/04 63/06 63/08	 th special structural characteristics or for special use Locks with special structural characteristics [1, 2006.01] without springs [1, 2006.01] for alternative use on the right-hand or left-hand side of wings [1, 2006.01] with lengthwise-adjustable bolts [1, 2006.01] Mortise locks [1, 2006.01]
Locks with 63/00 63/02 63/04 63/06 63/08 63/10	 th special structural characteristics or for special use Locks with special structural characteristics [1, 2006.01] without springs [1, 2006.01] for alternative use on the right-hand or left-hand side of wings [1, 2006.01] with lengthwise-adjustable bolts [1, 2006.01] Mortise locks [1, 2006.01] requiring only two cylindrical holes in the wing [1, 2006.01]
Locks with 63/00 63/02 63/04 63/06 63/08 63/10 63/12	 th special structural characteristics or for special use Locks with special structural characteristics [1, 2006.01] without springs [1, 2006.01] for alternative use on the right-hand or left-hand side of wings [1, 2006.01] with lengthwise-adjustable bolts [1, 2006.01] Mortise locks [1, 2006.01] requiring only two cylindrical holes in the wing [1, 2006.01] with means carried by the bolt for interlocking with the keeper [1, 2006.01]
Locks with 63/00 63/02 63/04 63/06 63/08 63/10 63/12 63/14	 th special structural characteristics or for special use Locks with special structural characteristics [1, 2006.01] without springs [1, 2006.01] for alternative use on the right-hand or left-hand side of wings [1, 2006.01] with lengthwise-adjustable bolts [1, 2006.01] Mortise locks [1, 2006.01] requiring only two cylindrical holes in the wing [1, 2006.01] with means carried by the bolt for interlocking with the keeper [1, 2006.01] Arrangement of several locks or locks with several bolts, e.g. arranged one behind the other (locks for keys with several bits E05B 35/14; with provision for latching E05B 59/00, E05B 61/00; arrangements of simultaneously-actuated bolts or other securing devices at well-separated positions on the same wing E05C 9/00) [1, 4, 2006.01]
Locks with 63/00 63/02 63/04 63/06 63/08 63/10 63/12	 th special structural characteristics or for special use Locks with special structural characteristics [1, 2006.01] without springs [1, 2006.01] for alternative use on the right-hand or left-hand side of wings [1, 2006.01] with lengthwise-adjustable bolts [1, 2006.01] Mortise locks [1, 2006.01] requiring only two cylindrical holes in the wing [1, 2006.01] with means carried by the bolt for interlocking with the keeper [1, 2006.01] Arrangement of several locks or locks with several bolts, e.g. arranged one behind the other (locks for keys with several bits E05B 35/14; with provision for latching E05B 59/00, E05B 61/00; arrangements of simultaneously-actuated bolts or other securing devices at well-separated positions on the same wing
Locks with 63/00 63/02 63/04 63/06 63/08 63/10 63/12 63/14	 th special structural characteristics or for special use Locks with special structural characteristics [1, 2006.01] without springs [1, 2006.01] for alternative use on the right-hand or left-hand side of wings [1, 2006.01] with lengthwise-adjustable bolts [1, 2006.01] Mortise locks [1, 2006.01] requiring only two cylindrical holes in the wing [1, 2006.01] with means carried by the bolt for interlocking with the keeper [1, 2006.01] Arrangement of several locks or locks with several bolts, e.g. arranged one behind the other (locks for keys with several bits E05B 35/14; with provision for latching E05B 59/00, E05B 61/00; arrangements of simultaneously-actuated bolts or other securing devices at well-separated positions on the same wing E05C 9/00) [1, 4, 2006.01] with the handles on opposite sides moving independently (the latch being secured by the

rereases		acome	
closed	[1,	2006.	01]

- 63/22 operated by a pulling or pushing action perpendicular to the front plate (E05B 35/04 takes precedence) [1, 2006.01]
- 63/24 Arrangements in which the fastening members which engage one another are mounted respectively on the wing and the frame and are both movable, e.g. for release by moving either of them (hasp locks E05B 65/48; hasp fastenings E05C 19/08) [4, 2006.01]

65/00 Locks for special use [1, 2006.01]

- 65/02 for thin, hollow, or thin-metal wings **[1, 2006.01]**
- 65/04 for wings, one behind the other, hinged on the same side (fastening devices specially adapted for two wings which lie one behind the other when closed E05C 7/02) [1, 4, 2006.01]
- 65/06 for swing doors **[1, 2006.01]**
- 65/08 for sliding wings **[1, 2006.01]**
- **6**5/10 for panic or emergency doors **[1, 2006.01]**
- 65/44 for furniture (for drawers E05B 65/46) **[1, 2006.01]**
- 65/46 for drawers [1, 4, 2006.01, 2017.01]
- 65/462 • for two or more drawers [2017.01]
- 65/463 • Drawer interlock or anti-tilt mechanisms, i.e. when one drawer is open, at least one of the remaining drawers is locked [2017.01]
 65/464 • comprising two or more lock elements
 - aligned in end-to-end abutting relation [2017.01]
- 65/465 • • with rotary locking bars [2017.01]
- 65/466 • with tensionable or flexible elements, e.g. cables, bands, chains or ropes [2017.01] 65/467 • • Locking bars secured in front of the
- drawers **[2017.01]** 65/468 • • using rotary locking bars (E05B 65/465,
- *E05B* 65/467 *take precedence*) **[2017.01]** 65/48 Hasp locks (hasp fastenings other than locks
- E05C 19/08) **[1, 2006.01]** 65/50 • for briefcases **[1, 2006.01]**
- Other locks for chests, boxes, trunks, baskets, travelling bags, or the like (closures for bags or trunks A45C 13/06, A45C 13/10, A45C 13/16) [1, 2006.01]
- 67/00 Padlocks (permutation locks E05B 37/00); Details thereof [1, 2006.01]
 67/02 Cases [1, 2006.01]
 67/04 Armoured cases [1, 2006.01]
- 67/04 Armoured cases [1, 2006.01]
 67/06 Shackles; Arrangement of the shackle
- 67/06 Shackles; Arrangement of the shackle [1, 2006.01]
 67/08 Padlocks with shackles hinged on the
- case [1, 2006.01]
 67/10 • with devices for securing the free end of the shackle [1, 2006.01]
 67/12 • with built-in cylinder locks [1, 2006.01]
 67/14 • with devices for securing the hinged end of the shackle [1, 2006.01]
- 67/16 • with built-in cylinder locks **[1, 2006.01]**
- 67/18 • with devices for securing both ends of the shackle [1, 2006.01]
 67/20 • with built-in cylinder locks [1, 2006.01]
 67/22 • Padlocks with sliding shackles, with or without
- 67/24 • with built-in cylinder locks [1, 2006.01]
- 67/26 • with screw action, with or without the shackle being moved by turning the key [1, 2006.01]
 67/28 Padlocks with shackles forming a circle [1, 2006.01]
- 67/30 • with built-in cylinder locks [1, 2006.01]

67/32	• • Padlocks with pincer-like shackles [1, 2006.01]
67/34	• • • with built-in cylinder locks [1, 2006.01]
67/36	 Padlocks with closing means other than shackles [1, 2006.01]

67/38 • Auxiliary or protective devices [1, 2006.01]

Locking devices for clothing, sticks, umbrellas, or cycles

69/00	Devices for locking clothing; Lockable clothing holders or hangers (dress or hat holders in general A47G 25/00) [1, 2006.01]
69/02	Lockable clothing hooks (coin-controlled locking hooks G07F) [1, 2006.01]
71/00	Locks specially adapted for bicycles, other than padlocks (locks integral with cycles B62H 5/00) [1, 2006.01]
71/02	• with permutation locking devices [1, 2006.01]
73/00	Devices for locking portable objects against unauthorised removal; Locking devices not provided for in other groups of this subclass [1, 2006.01]
73/02	 for walking-sticks or umbrellas (stick or umbrella holders in general A47G 25/12) [1, 2006.01]

75/00 Handcuffs [1, 2006.01]

Locks for vehicles other than bicycles [2014.01]

77/00	Vehicle locks characterised by special functions or
	purposes (locks specially adapted for bicycles E05B 71/00; locking arrangements for non-fixed vehicle
	roofs B60J 7/185) [2014.01]
77/02	• for accident situations [2014.01]
77/04	• • Preventing unwanted lock actuation, e.g.
	unlatching, at the moment of collision [2014.01]
77/06	• • • by means of inertial forces [2014.01]
77/08	Arrangements for protection of pedestrians [2014.01]
77/10	 Allowing opening in case of deformed bodywork, e.g. by preventing deformation of lock parts [2014.01]
77/12	• • Automatic locking or unlocking at the moment of collision [2014.01]
77/14	• Specially controlled locking actions in case of open doors or in case of doors moved from an open to a closed position, e.g. lock-out prevention or self-cancelling [2014.01]
77/16	• Preventing locking with the bolt in the unlatched position, i.e. when the door is open [2014.01]
77/18	 Keyless locking with self-cancellation, e.g. resulting in an unlocking action when the door is being closed [2014.01]
77/20	 • Override of self-cancellation, e.g. by actuation of the handle while the door is being closed [2014.01]
77/22	• Functions related to actuation of locks from the passenger compartment of the vehicle [2014.01]
77/24	• • preventing use of an inner door handle, sill button, lock knob or the like [2014.01]
77/26	• • • specially adapted for child safety [2014.01]
77/28	• • for anti-theft purposes, e.g. double-locking or super-locking [2014.01]
77/30	 allowing opening by means of an inner door handle, even if the door is locked [2014.01]

77/32	 allowing simultaneous actuation of locking or unlocking elements and a handle, e.g. preventing interference between an unlocking and an unlatching action [2014.01]
77/34	 Protection against weather or dirt, e.g. against water ingress (closures or guards for keyholes E05B 17/14) [2014.01]
77/36	Noise prevention; Anti-rattling means [2014.01]
77/38	• Cushion elements, elastic guiding elements or holding elements, e.g. for cushioning or damping the impact of the bolt against the striker during closing of the wing [2014.01]
77/40	 Lock elements covered by silencing layers, e.g. coatings [2014.01]
77/42	• Means for damping the movement of lock parts, e.g. slowing down the return movement of a handle (E05B 77/38 takes precedence) [2014.01]
77/44	 Burglar prevention, e.g. protecting against opening by unauthorised tools (E05B 77/28 takes precedence) [2014.01]
77/46	• Locking several wings simultaneously [2014.01]
77/48	• • by electrical means [2014.01]
77/50	• • by pneumatic or hydraulic means [2014.01]
77/52	• Locking one wing by shutting another [2014.01]
77/54	 Automatic securing or unlocking of bolts triggered by certain vehicle parameters, e.g. exceeding a speed threshold (triggered by vehicle collision E05B 77/12) [2014.01]
79/00	Mounting or connecting vehicle locks or parts thereof [2014.01]
79/02	• Mounting of vehicle locks or parts thereof [2014.01]
79/04	• • Mounting of lock casings to the vehicle, e.g. to the wing [2014.01]
79/06	• • Mounting of handles, e.g. to the wing or to the lock [2014.01]
79/08	• • Mounting of individual lock elements in the lock, e.g. levers [2014.01]
79/10	Connections between movable lock parts [2014.01]
79/12	• • using connecting rods [2014.01]
79/14	• • • the rods being linked to each other [2014.01]
79/16	• • characterised by means for linking the rods to other lock parts, e.g. to levers [2014.01]
79/18	• • • Rod guides [2014.01]
79/20	• • using flexible connections, e.g. Bowden cables [2014.01]
79/22	 Operative connections between handles, sill buttons or lock knobs and the lock unit (mounting of non-movable base elements of a handle to a lock E05B 79/06) [2014.01]
81/00	Power-actuated vehicle locks [2014.01]
81/02	• characterised by the type of actuators used [2014.01]
81/04	Electrical (electrical circuits E05B 81/54) [2014.01]
81/06	• • • using rotary motors [2014.01]
81/08	• • • using electromagnets or solenoids [2014.01]
81/10	Hydraulic or pneumatic (hydraulic or pneumatic circuits E05B 81/52) [2014.01]
81/12	 characterised by the function or purpose of the powered actuators [2014.01]
81/14	• • operating on bolt detents, e.g. for unlatching the bolt [2014.01]
81/16	 operating on locking elements for locking or unlocking action [2014.01]

81/18 • • to effect movement of bolts (E05B 81/20 takes precedence) [2014.01]

E05B

81/20	 for assisting final closing or for initiating opening [2014.01]
81/22	 • • by movement of the striker [2014.01]
81/24	 characterised by constructional features of the
01/21	actuator or the power transmission [2014.01]
81/26	Output elements [2014.01]
81/28	• • • Linearly reciprocating elements [2014.01]
81/30	• • • Rotary elements [2014.01]
81/32	• • Details of the actuator transmission [2014.01]
81/34	• • • of geared transmissions [2014.01]
81/36	• • • • Geared sectors, e.g. fan-shaped
	gears [2014.01]
81/38	• • • • Planetary gears [2014.01]
81/40	• • • Nuts or nut-like elements moving along a
	driven threaded axle [2014.01]
81/42	• • • Cams [2014.01]
81/44	• • • • in the form of grooves [2014.01]
81/46	• • • Clutches [2014.01]
81/48	 Actuators being driven in a single
01/10	direction [2014.01]
81/50	 Powered actuators with automatic return to the
01/00	neutral position by non-powered means, e.g. by
	springs [2014.01]
81/52	Pneumatic or hydraulic circuits (for locking several
	wings simultaneously E05B 77/50) [2014.01]
81/54	Electrical circuits (for locking several wings
	simultaneously E05B 77/48) [2014.01]
81/56	Control of actuators [2014.01]
81/58	• • • involving time control, e.g. for controlling run-
	time of electric motors [2014.01]
81/60	• • • using pulse control, e.g. pulse-width
	modulation [2014.01]
81/62	• • • for opening or closing of a circuit depending on
	electrical parameters, e.g. increase of motor
	current [2014.01]
81/64	• • Monitoring or sensing, e.g. by using switches or
	sensors [2014.01]
81/66	• • • the bolt position, i.e. the latching
	status [2014.01]
81/68	• • • by sensing the position of the
	detent [2014.01]
81/70	• • • the wing position [2014.01]
81/72	• • • the lock status, i.e. locked or unlocked
	condition [2014.01]
81/74	• • • by sensing the state of the actuator [2014.01]
81/76	• • • Detection of handle operation; Detection of a
	user approaching a handle; Electrical switching
	actions performed by handles [2014.01]
81/78	• • • as part of a hands-free locking or unlocking
	operation [2014.01]
81/80	• • characterised by the power supply; Emergency
	power operation [2014.01]
81/82	• • • using batteries other than the vehicle main
	battery [2014.01]
81/84	• • • using manually operated generator
	means [2014.01]
81/86	• • • using capacitors [2014.01]
81/88	• • • using inductive energy transmission [2014.01]
81/90	Manual override in case of power failure [2014.01]
00 /00	
83/00	Vehicle locks specially adapted for particular types of
	wing or vehicle (locks specially adapted for bicycles E05B 71/00; locking arrangements for non-fixed vehicle
	roofs B60J 7/185; latching means for sideboards or
	tailgates of open load compartments
	B62D 33/037) [2014.01]

83/02	•	Locks for railway freight-cars, freight containers or the like; Locks for the cargo compartments of commercial lorries, trucks or vans [2014.01]
83/04		 for sliding wings [2014.01]
83/06	•	• • of railway freight-cars [2014.01]
83/08	•	 with elongated bars for actuating the fastening means [2014.01]
83/10	•	 Rotary bars [2014.01]
83/12	•	• for back doors of vans (E05B 83/04, E05B 83/08 take precedence) [2014.01]
83/14	•	• with provisions for sealing [2014.01]
83/16	•	Locks for luggage compartments, car boot lids or car
00/10		bonnets [2014.01]
83/18	•	 for car boot lids or rear luggage compartments [2014.01]
83/20		 with two or more wings, which together close a
03/20	•	single compartment [2014.01]
83/22		 for luggage compartments at the side of the
	•	vehicle, e.g. of buses or camper vans [2014.01]
83/24	•	 for car bonnets [2014.01]
83/26	•	• Emergency opening means for persons trapped in the luggage compartment [2014.01]
83/28	•	Locks for glove compartments, console boxes, fuel
		inlet covers or the like [2014.01]
83/30	•	 for glove compartments [2014.01]
83/32	•	• for console boxes, e.g. between passenger
		seats [2014.01]
83/34	•	 for fuel inlet covers essentially flush with the vehicle surface [2014.01]
83/36	•	Locks for passenger or like doors [2014.01]
83/38	•	 for pillar-less vehicles, i.e.vehicles where a front
00,00		and a back door engage each other in the closed position [2014.01]
83/40	•	 for sliding doors [2014.01]
83/42	•	• for large commercial vehicles, e.g. trucks,
		construction vehicles or vehicles for mass transport [2014.01]
83/44	•	• for recreational vehicles, e.g. caravans or camper
		vans [2014.01]
85/00		etails of vehicle locks not provided for in groups 05B 77/00-E05B 83/00 [2014.01]
85/02	•	Lock casings (mounting of lock casings
		E05B 79/04) [2014.01]
85/04	•	Strikers [2014.01]
85/06	•	Lock cylinder arrangements [2014.01]
85/08	•	Sill-buttons, garnish buttons or inner door lock
00/10		knobs [2014.01]
85/10	•	Handles [2014.01]
85/12	•	• Inner door handles [2014.01]
85/14	•	 Handles pivoted about an axis parallel to the wing [2014.01]
85/16	•	• • a longitudinal grip part being pivoted at one
		end about an axis perpendicular to the
		longitudinal axis of the grip part [2014.01]
85/18	•	• • a longitudinal grip part being pivoted about an
		axis parallel to the longitudinal axis of the grip
05 (20		part [2014.01]
85/20	•	Bolts or detents [2014.01]
85/22	•	Rectilinearly moving bolts [2014.01]
85/24	•	• Bolts rotating about an axis [2014.01]
85/26	•	Cooperation between bolts and detents [2014 01]
0E / 20		detents [2014.01]
85/28	•	• in which the member engaging the keeper is shaped as a toothed wheel or the like [2014.01]

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)

Note(s)

- 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.

Subclass index

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	
ARRANGEMENT OF FASTENING, SECURING, OR LOCKING DEVICES	

<u>character</u>	ches or equivalent wing-fastening devices, rised by special way of movement, e.g. moving rrly, pivotally or rotatively	3/14 3/16	 with operating handle or equivalent member rigid with the latch [1, 2006.01] with operating handle or equivalent member
1/00	Fastening devices with bolts moving rectilinearly (devices released automatically by pull or pressure on		moving otherwise than rigidly with the latch [1, 2006.01]
	the wing E05C 19/02) [1, 2006.01]	3/22	• • • the bolt being spring-controlled [1, 2006.01]
1/02	 without latching action [1, 2006.01] 	3/24	• • • in the form of a bifurcated
1/04	 with operating handle or equivalent member rigid 	2 (26	member [1, 2006.01]
1/01	with the bolt [1, 2006.01]	3/26	• • • • engaging a stud-like keeper [1, 2006.01]
1/06	 with operating handle or equivalent member moving otherwise than rigidly with the 	3/28	• • • • • • with simultaneously-operating double bolts [1, 2006.01]
	bolt [1, 2006.01]	3/30	• • • • in the form of a hook [1, 2006.01]
1/08	• with latching action [1, 2006.01]	3/32	••••• engaging a hooked keeper (E05C 3/34 takes precedence) [1, 2006.01]
1/10	• • with operating handle or equivalent member rigid with the latch [1, 2006.01]	3/34	• • • • with simultaneously-operating double bolts [1, 2006.01]
1/12	 with operating handle or equivalent member 	3/36	• • • • in the form of a rotary gear [1, 2006.01]
	moving otherwise than rigidly with the latch [1, 2006.01]	3/38	• • • • with bolts engaging a hooked keeper
1/14	 • the handle or member moving essentially towards, or away from, the plane of the wing or 		(E05C 3/24, E05C 3/30, E05C 3/36 take precedence) [1, 2006.01]
	frame [1, 2006.01]	3/40	• • • • with bolts engaging a stud-like keeper
1/16	 the handle or member moving essentially in a plane substantially parallel to the 		(E05C 3/24, E05C 3/30, E05C 3/36 take precedence) [1, 2006.01]
	wing [1, 2006.01]	5/00	Fastening devices with bolts moving otherwise than
3/00	Fastening devices with bolts moving pivotally or rotatively (devices released automatically by pull or pressure on the wing E05C 19/02) [1, 2006.01]		only rectilinearly and only pivotally or rotatively (devices released automatically by pull or pressure on the wing E05C 19/02) [1, 2006.01]
3/02	 without latching action [1, 2006.01] 	5/02	 both moving axially and turning about their axes to
3/02	 without facting action [1, 200.01] with operating handle or equivalent member rigid 		secure the wing [1, 2006.01]
	with the bolt [1, 2006.01]	5/04	• performing both movements simultaneously, e.g. screwing into a keeper [1, 2006.01]
3/06	 with operating handle or equivalent member moving otherwise than rigidly with the bolt [1, 2006.01] 		
3/08	 the handle or member moving essentially towards, or away from, the plane of the wing or frame [1, 2006.01] 	7/00	Fastening devices specially adapted for two wings [1, 2006.01]
3/10	 • • the handle or member moving essentially in a 		<u>Note(s)</u>
0,10	plane substantially parallel to the wing [1, 2006.01]		In this group, if a fastening device merely secures one
3/12	 wing [1, 200001] with latching action (devices in which the securing 		wing to another wing which is already closed it is not regarded as specially adapted for two wings.
5/12	part is formed or merely carried by a spring and	7/02	 for wings which lie one behind the other when
	moves only by distortion of the spring, e.g. snaps,	7702	closed [1, 2006.01]
	E05C 19/06) [1, 2006.01]	7/04	• for wings which abut when closed [1, 2006,01]

E05C 19/06) **[1, 2006.01]**

7/04 • for wings which abut when closed [1, 2006.01]

7/06	•	•	a fastening device for one wing being actuated or
			controlled by closing another wing [1, 2006.01]

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) [1, 2006.01]

- 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 [1, 4, 2006.01]
- 9/04 with two sliding bars moved in opposite directions when fastening or unfastening **[1, 2006.01]**
- 9/06 with three or more sliding bars [1, 2006.01]
- 9/08 with a rotary bar for actuating the fastening means **[1, 2006.01]**
- 9/10 Actuating mechanisms for bars [1, 2006.01]
- 9/12 • with gears and racks [1, 2006.01]
- 9/14 • with pins engaging slots [1, 2006.01]
- 9/16 • with crank pins and connecting rods [1, 2006.01]
- 9/18 Details of fastening means or of fixed retaining means for the ends of bars [1, 2006.01]
- 9/20 Coupling means for sliding bars, rods, or cables [4, 2006.01]
- 9/22 Guides for sliding bars, rods, or cables (corner guides E05C 9/24) **[4, 2006.01]**
- 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, 2006.01]
- 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) [1, 4, 2006.01]
- 17/02 by mechanical means (E05C 17/60 takes precedence) **[1, 4, 2006.01]**
- 17/04with a movable bar or equivalent member extending between frame and wing [1, 2006.01] 17/06٠ releasable to allow further opening only when the wing is nearly closed [1, 2006.01] 17/08• with special means for release, e.g. automatic release by further opening [1, 2006.01] incorporating a special device for securing the 17/10wing in the closed position [1, 2006.01] 17/12consisting of a single rod [1, 2006.01] 17/14Hook and eye, or equivalent [1, 2006.01] 17/16pivoted only at one end and having an elongated slot [1, 2006.01] 17/18pivoted only at one end and having a row of holes, notches, or pins [1, 2006.01] 17/20sliding through a guide (E05C 17/18 takes precedence) [1, 2006.01] 17/22with braking, clamping or securing means in the guide [1, 4, 2006.01]
- 17/24 • • pivoted at one end, and with the other end running along a guide member [1, 2006.01]
 17/26 • • with braking, clamping or securing means
- at the pivot of the rod **[1, 4, 2006.01]**

17/28	• • • • with braking, clamping or securing means
	at the connection to the guide
17/30	 member [1, 4, 2006.01] of extensible, e.g. telescopic, construction
17/30	(flexible members E05C 17/36) [1, 2006.01]
17/32	 • consisting of two or more pivoted
17702	rods [1, 2006.01]
17/34	• • • with means for holding in more than one
	position [1, 2006.01]
17/36	• • • comprising a flexible member, e.g.
	chains [1, 2006.01]
17/38	• • with a curved rail rigid with the frame for
	engagement with means on the wing, or <u>vice</u>
17/40	 versa [1, 2006.01] Bars or like parts connecting a right wing with a
17740	left wing which move against each other when
	being closed [1, 2006.01]
17/42	connecting exterior and interior
	wings [1, 2006.01]
17/44	• • with a device carried on the wing for frictional or
	like engagement with a fixed flat surface, e.g.
17/40	retractable feet [1, 2006.01]
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 [1, 4, 2006.01]
17/48	• • • comprising a sliding securing
17/50	member [1, 2006.01]
17/50	 comprising a single pivoted securing member [1, 2006.01]
17/52	 • • • comprising a snap, catch, or the
17752	like [1, 2006.01]
17/54	 Portable devices, e.g. wedges [1, 2006.01]
17/56	• by magnetic or electromagnetic attraction (operation
	of locks or fasteners by electric or magnetic means
	E05B 47/00) [1, 2, 2006.01]
17/58	• operated or controlled from a distance [1, 2006.01]
17/60	 holding sliding wings open [4, 2006.01]
17/62	• • using notches [4, 2006.01]
17/64	• • by friction [4, 2006.01]
19/00	Other devices specially designed for securing wings
	(movable draft sealings additionally used for bolting
	E06B 7/18) [1, 2, 2006.01]
19/02	• Automatic catches, i.e. released by pull or pressure
	on the wing (E05C 19/06 takes
	precedence) [1 2006 01]
19/04	precedence) [1, 2006.01]
19/04 19/06	• Ball or roller catches [1, 2006.01]
19/04 19/06	Ball or roller catches [1, 2006.01]in which the securing part is formed or carried by a
	• Ball or roller catches [1, 2006.01]
	 Ball or roller catches [1, 2006.01] in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps [1, 2006.01] Hasps; Hasp fastenings; Spring catches
19/06	 Ball or roller catches [1, 2006.01] in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps [1, 2006.01] Hasps; Hasp fastenings; Spring catches therefor [1, 2006.01]
19/06	 Ball or roller catches [1, 2006.01] in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps [1, 2006.01] Hasps; Hasp fastenings; Spring catches therefor [1, 2006.01] Hook fastenings; Fastenings in which a link engages
19/06 19/08 19/10	 Ball or roller catches [1, 2006.01] in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps [1, 2006.01] Hasps; Hasp fastenings; Spring catches therefor [1, 2006.01] Hook fastenings; Fastenings in which a link engages a fixed hook-like member [1, 2006.01]
19/06 19/08 19/10 19/12	 Ball or roller catches [1, 2006.01] in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps [1, 2006.01] Hasps; Hasp fastenings; Spring catches therefor [1, 2006.01] Hook fastenings; Fastenings in which a link engages a fixed hook-like member [1, 2006.01] pivotally mounted [1, 2006.01]
19/06 19/08 19/10 19/12 19/14	 Ball or roller catches [1, 2006.01] in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps [1, 2006.01] Hasps; Hasp fastenings; Spring catches therefor [1, 2006.01] Hook fastenings; Fastenings in which a link engages a fixed hook-like member [1, 2006.01] pivotally mounted [1, 2006.01] with toggle action [1, 2006.01]
19/06 19/08 19/10 19/12	 Ball or roller catches [1, 2006.01] in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps [1, 2006.01] Hasps; Hasp fastenings; Spring catches therefor [1, 2006.01] Hook fastenings; Fastenings in which a link engages a fixed hook-like member [1, 2006.01] pivotally mounted [1, 2006.01] with toggle action [1, 2006.01] Devices holding the wing by magnetic or
19/06 19/08 19/10 19/12 19/14	 Ball or roller catches [1, 2006.01] in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps [1, 2006.01] Hasps; Hasp fastenings; Spring catches therefor [1, 2006.01] Hook fastenings; Fastenings in which a link engages a fixed hook-like member [1, 2006.01] pivotally mounted [1, 2006.01] with toggle action [1, 2006.01] Devices holding the wing by magnetic or electromagnetic attraction [1, 2006.01]
19/06 19/08 19/10 19/12 19/14 19/16	 Ball or roller catches [1, 2006.01] in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps [1, 2006.01] Hasps; Hasp fastenings; Spring catches therefor [1, 2006.01] Hook fastenings; Fastenings in which a link engages a fixed hook-like member [1, 2006.01] pivotally mounted [1, 2006.01] with toggle action [1, 2006.01] Devices holding the wing by magnetic or electromagnetic attraction [1, 2006.01] Portable devices specially adapted for securing wings (preventing operation of handles
19/06 19/08 19/10 19/12 19/14 19/16	 Ball or roller catches [1, 2006.01] in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps [1, 2006.01] Hasps; Hasp fastenings; Spring catches therefor [1, 2006.01] Hook fastenings; Fastenings in which a link engages a fixed hook-like member [1, 2006.01] pivotally mounted [1, 2006.01] with toggle action [1, 2006.01] Devices holding the wing by magnetic or electromagnetic attraction [1, 2006.01] Portable devices specially adapted for securing wings
19/06 19/08 19/10 19/12 19/14 19/16	 Ball or roller catches [1, 2006.01] in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps [1, 2006.01] Hasps; Hasp fastenings; Spring catches therefor [1, 2006.01] Hook fastenings; Fastenings in which a link engages a fixed hook-like member [1, 2006.01] pivotally mounted [1, 2006.01] with toggle action [1, 2006.01] Devices holding the wing by magnetic or electromagnetic attraction [1, 2006.01] Portable devices specially adapted for securing wings (preventing operation of handles

single one of main groups E05C 1/00-

E05C 19/00 [1, 2006.01]

21/02• for holding a wing closed only [1, 2006.01]

HINGES OR OTHER SUSPENSION DEVICES FOR DOORS, WINDOWS, OR WINGS (pivotal connections in general E05D F16C 11/00)

Subclass index

HINGES	
General structure	
Special structure	7/00
Details; accessories	
OTHER SUSPENSION DEVICES FOR WINGS	
	-

1/00	Pinless hinges; Substitutes for hinges [1, 2006.01]	7/08	 for use in suspensions comprising two spigots placed at appearite address of the wing appearially at the tap
1/02	• made of one piece [1, 2006.01]		at opposite edges of the wing, especially at the top and the bottom, e.g. trunnions [1, 2006.01]
1/04	• with guide members shaped as circular	7/081	 the pivot axis of the wing being situated near one
1/06	arcs [1, 2006.01]consisting of two easily-separable parts [1, 2006.01]	77001	edge of the wing (braking devices therefor E05D 11/08) [2, 2006.01]
3/00	Hinges with pins [1, 2006.01]	7/082	 the pivot axis of the wing being situated at a
3/02	• with one pin [1, 2006.01]	.,	considerable distance from the edges of the
3/04	 engaging three or more parts, e.g. sleeves, 		wing [2, 2006.01]
5/01	movable relatively to one another for connecting	7/083	• • • with a fixed pivot axis [2, 2006.01]
	two or more wings to another	7/084	• • • with a movable pivot axis [2, 2006.01]
	member [1, 2006.01]	7/085	• • • • with two or more pivot axes, e.g. used at the
3/06	• with two or more pins (E05D 7/08 takes		same time [2, 2006.01]
	precedence) [1, 2, 2006.01]	7/086	• • • Braking devices structurally combined with
3/08	• for swing-doors, i.e. openable by pushing from either side [1, 2006.01]		hinges (braking devices for windows per se E05F 5/00) [2, 2006.01]
3/10	• • with non-parallel pins [1, 2006.01]	7/10	• to allow easy separation of the parts at the hinge axis
3/12	• • with two parallel pins and one arm (E05D 3/08		(substitutes for hinges E05D 1/06) [1, 2006.01]
	takes precedence) [7, 2006.01]	7/12	 to allow easy detachment of the hinge from the wing
3/14	 with four parallel pins and two arms (E05D 3/08 		or the frame [1, 2006.01]
	takes precedence) [7, 2006.01]	7/14	 Hinges for safes [1, 2006.01]
3/16	• • with seven parallel pins and four arms (E05D 3/08 takes precedence) [7, 2006.01]	9/00	Flaps or sleeves specially designed for making from
3/18	 with sliding pins or guides (E05D 3/08 takes precedence) [7, 2006.01] 		particular material, e.g. hoop-iron, sheet metal, plastics [1, 2006.01]
5/00	Construction of single parts, e.g. the parts for	11/00	Additional features or accessories of hinges [1, 2006.01]
	attachment [1, 2006.01]		hinges [1, 2006.01]
5/02	attachment [1, 2006.01]Parts for attachment, e.g. flaps [1, 2006.01]	11/02	hinges [1, 2006.01]Lubricating arrangements [1, 2006.01]
5/02 5/04	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] 		hinges [1, 2006.01]
5/02 5/04 5/06	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] 	11/02	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces
5/02 5/04 5/06 5/08	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] 	11/02 11/04	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01]
5/02 5/04 5/06 5/08 5/10	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [1, 2, 2006.01] 	11/02 11/04	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01] Devices for limiting the opening movement of hinges [1, 2006.01] Friction devices between relatively-movable hinge
5/02 5/04 5/06 5/08	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [1, 2, 2006.01] Securing pins in sockets, movably or 	11/02 11/04 11/06	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01] Devices for limiting the opening movement of hinges [1, 2006.01] Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01]
5/02 5/04 5/06 5/08 5/10 5/12	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [1, 2, 2006.01] Securing pins in sockets, movably or not [1, 2006.01] 	11/02 11/04 11/06 11/08	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01] Devices for limiting the opening movement of hinges [1, 2006.01] Friction devices between relatively-movable hinge
5/02 5/04 5/06 5/08 5/10 5/12 5/14	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [1, 2, 2006.01] Securing pins in sockets, movably or not [1, 2006.01] Construction of sockets or sleeves [1, 2006.01] 	11/02 11/04 11/06 11/08 11/10	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01] Devices for limiting the opening movement of hinges [1, 2006.01] Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts [1, 2006.01]
5/02 5/04 5/06 5/08 5/10 5/12	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [1, 2, 2006.01] Securing pins in sockets, movably or not [1, 2006.01] 	11/02 11/04 11/06 11/08	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01] Devices for limiting the opening movement of hinges [1, 2006.01] Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts [1, 2006.01] Accessories for sliding or lifting wings, e.g. pulleys, safety catches (counterbalance devices E05F 1/00,
5/02 5/04 5/06 5/08 5/10 5/12 5/14	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [1, 2, 2006.01] Securing pins in sockets, movably or not [1, 2006.01] Construction of sockets or sleeves [1, 2006.01] to be secured without special attachment parts 	11/02 11/04 11/06 11/08 11/10	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01] Devices for limiting the opening movement of hinges [1, 2006.01] Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts [1, 2006.01] Accessories for sliding or lifting wings, e.g. pulleys,
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5/02 5/04 5/06 5/08 5/10 5/12 5/14 5/16	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [1, 2, 2006.01] Securing pins in sockets, movably or not [1, 2006.01] Construction of sockets or sleeves [1, 2006.01] to be secured without special attachment parts on the socket or sleeve [1, 2006.01] 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 	11/02 11/04 11/06 11/08 11/10 13/00	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01] Devices for limiting the opening movement of hinges [1, 2006.01] Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts [1, 2006.01] Devices for sliding or lifting wings, e.g. pulleys, safety catches (counterbalance devices E05F 1/00, E05F 3/00) [1, 4, 2006.01] Suspension arrangements for wings (arrangements of wings not characterised by the construction of the
5/02 5/04 5/06 5/08 5/10 5/12 5/14 5/16	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [1, 2, 2006.01] Securing pins in sockets, movably or not [1, 2006.01] Construction of sockets or sleeves [1, 2006.01] to be secured without special attachment parts on the socket or sleeve [1, 2006.01] 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 	11/02 11/04 11/06 11/08 11/10 13/00 15/00	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01] Devices for limiting the opening movement of hinges [1, 2006.01] Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts [1, 2006.01] Accessories for sliding or lifting wings, e.g. pulleys, safety catches (counterbalance devices E05F 1/00, E05F 3/00) [1, 4, 2006.01] Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means E06B 3/32) [1, 2006.01]
5/02 5/04 5/06 5/08 5/10 5/12 5/14 5/16 7/00	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [1, 2, 2006.01] Securing pins in sockets, movably or not [1, 2006.01] Construction of sockets or sleeves [1, 2006.01] to be secured without special attachment parts on the socket or sleeve [1, 2006.01] 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) [1, 2006.01] 	11/02 11/04 11/06 11/08 11/10 13/00 15/00	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01] Devices for limiting the opening movement of hinges [1, 2006.01] Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts [1, 2006.01] Accessories for sliding or lifting wings, e.g. pulleys, safety catches (counterbalance devices E05F 1/00, E05F 3/00) [1, 4, 2006.01] Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means E06B 3/32) [1, 2006.01] for revolving wings [1, 2006.01]
5/02 5/04 5/06 5/08 5/10 5/12 5/14 5/16	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [1, 2, 2006.01] Securing pins in sockets, movably or not [1, 2006.01] Construction of sockets or sleeves [1, 2006.01] to be secured without special attachment parts on the socket or sleeve [1, 2006.01] to be secured without special attachment parts on the socket or sleeve [1, 2006.01] finges 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) [1, 2006.01] for use on the right-hand as well as on the left-hand side; Convertible right-hand or left-hand 	11/02 11/04 11/06 11/08 11/10 13/00 15/00	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01] Devices for limiting the opening movement of hinges [1, 2006.01] Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts [1, 2006.01] Accessories for sliding or lifting wings, e.g. pulleys, safety catches (counterbalance devices E05F 1/00, E05F 3/00) [1, 4, 2006.01] Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means E06B 3/32) [1, 2006.01] for revolving wings [1, 2006.01] with arms fixed on the wing pivoting about an axis outside of the wing [1, 2006.01]
5/02 5/04 5/06 5/08 5/10 5/12 5/14 5/16 7/00	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [1, 2, 2006.01] Securing pins in sockets, movably or not [1, 2006.01] Construction of sockets or sleeves [1, 2006.01] to be secured without special attachment parts on the socket or sleeve [1, 2006.01] to be secured without special attachment parts on the socket or sleeve [1, 2006.01] finges 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) [1, 2006.01] for use on the right-hand as well as on the left-hand side; Convertible right-hand or left-hand hinges [1, 2006.01] 	11/02 11/04 11/06 11/08 11/10 13/00 15/00	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01] Devices for limiting the opening movement of hinges [1, 2006.01] Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts [1, 2006.01] Accessories for sliding or lifting wings, e.g. pulleys, safety catches (counterbalance devices E05F 1/00, E05F 3/00) [1, 4, 2006.01] Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means E06B 3/32) [1, 2006.01] for revolving wings [1, 2006.01] with arms fixed on the wing pivoting about an axis outside of the wing [1, 2006.01] for wings sliding horizontally more or less in their
5/02 5/04 5/06 5/08 5/10 5/12 5/14 5/16 7/00	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [1, 2, 2006.01] Securing pins in sockets, movably or not [1, 2006.01] Construction of sockets or sleeves [1, 2006.01] to be secured without special attachment parts on the socket or sleeve [1, 2006.01] 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) [1, 2006.01] for use on the right-hand as well as on the left-hand side; Convertible right-hand or left-hand hinges [1, 2006.01] Hinges adjustable relative to the wing or the 	11/02 11/04 11/06 11/08 11/10 13/00 15/00 15/02 15/04	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01] Devices for limiting the opening movement of hinges [1, 2006.01] Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts [1, 2006.01] Accessories for sliding or lifting wings, e.g. pulleys, safety catches (counterbalance devices E05F 1/00, E05F 3/00) [1, 4, 2006.01] Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means E06B 3/32) [1, 2006.01] for revolving wings [1, 2006.01] with arms fixed on the wing pivoting about an axis outside of the wing [1, 2006.01] for wings sliding horizontally more or less in their own plane [1, 2006.01]
5/02 5/04 5/06 5/08 5/10 5/12 5/14 5/16 7/00	 attachment [1, 2006.01] Parts for attachment, e.g. flaps [1, 2006.01] Flat flaps [1, 2006.01] Bent flaps [1, 2006.01] of cylindrical shape [1, 2006.01] Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [1, 2, 2006.01] Securing pins in sockets, movably or not [1, 2006.01] Construction of sockets or sleeves [1, 2006.01] to be secured without special attachment parts on the socket or sleeve [1, 2006.01] to be secured without special attachment parts on the socket or sleeve [1, 2006.01] finges 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) [1, 2006.01] for use on the right-hand as well as on the left-hand side; Convertible right-hand or left-hand hinges [1, 2006.01] 	11/02 11/04 11/06 11/08 11/10 13/00 15/00 15/02 15/04	 hinges [1, 2006.01] Lubricating arrangements [1, 2006.01] relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) [1, 2006.01] Devices for limiting the opening movement of hinges [1, 2006.01] Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts (E05D 7/086 takes precedence) [1, 2, 2006.01] Devices for preventing movement between relatively-movable hinge parts [1, 2006.01] Accessories for sliding or lifting wings, e.g. pulleys, safety catches (counterbalance devices E05F 1/00, E05F 3/00) [1, 4, 2006.01] Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means E06B 3/32) [1, 2006.01] for revolving wings [1, 2006.01] with arms fixed on the wing pivoting about an axis outside of the wing [1, 2006.01] for wings sliding horizontally more or less in their

E05D

15/10	 movable out of one plane into a second parallel plane [1, 2006.01] 	15/38 • • for upwardly-moving wings, e.g. up-and-over doors [1, 2006.01]
15/12	 consisting of parts connected at their edges [1, 2006.01] 	15/40 • supported on arms movable in vertical planes [1, 2006.01]
15/14	• • with movable arms situated in the plane of the wing [1, 2006.01]	15/42 • • with pivoted arms and horizontally-sliding guides [1, 2006.01]
15/16	 for wings sliding vertically more or less in their own plane [1, 2006.01] 	15/44 • • with pivoted arms and vertically-sliding guides [1, 2006.01]
15/18	 consisting of two or more independent parts 	15/46 • • with two pairs of pivoted arms [1, 2006.01]
	movable each in its own guides [1, 2006.01]	15/48 • allowing alternative movements (for vertically-
15/20	 movable out of one plane into a second parallel 	sliding wings E05D 15/22) [1, 2006.01]
	plane [1, 2006.01]	15/50 • • for opening at either of two opposite
15/22	 allowing an additional movement [1, 2006.01] 	edges [1, 2006.01]
15/24	 consisting of parts connected at their edges [1, 2006.01] 	15/52 • for opening about a vertical as well as a horizontal axis [1, 2006.01]
15/26	• for folding wings [1, 2006.01]	15/522 • • • with disconnecting means for the appropriate
15/28	 supported on arms movable in horizontal 	pivoting parts [2, 2006.01]
	plane [1, 2006.01]	15/523 • • • • using movable rods [2, 2006.01]
15/30	• • with pivoted arms and sliding guides [1, 2006.01]	15/524 • • • • • Actuating mechanisms [2, 2006.01]
15/32	• • with two pairs of pivoted arms [1, 2006.01]	15/526 • • • Safety devices [2, 2006.01]
15/34	• • • with wings opening parallel to themselves [1, 2006.01]	15/54 • • for opening both inwards and outwards [1, 2006.01]
15/36	 moving along slide-ways so arranged that one guide 	15/56 • with successive different movements [1, 2006.01]
	member of the wing moves in a direction	15/58 • • with both swinging and sliding
	substantially perpendicular to the movement of another guide member [1, 2006.01]	movements [1, 2006.01]

DEVICES FOR MOVING WINGS INTO OPEN OR CLOSED POSITION; CHECKS FOR WINGS; WING FITTINGS NOT OTHERWISE PROVIDED FOR, CONCERNED WITH THE FUNCTIONING OF THE WING E05F

Note(s) [4]

In this subclass, the following terms are used with the meanings indicated: • "closer" or "opener" includes devices for assisting wing-movement or for wing-counterbalancing.

Subclass index

CLOSERS, OPENERS, OR CHECKS FOR WINGS	1/00, 3/00, 5/00
ACCESSORIES FOR WINGS	7/00
OPERATING MECHANISMS FOR WINGS	9/00-17/00

1/00	Closers or openers for wings, not otherwise provided for in this subclass [1, 2006.01]	3/06	• • in which a torsion spring rotates a member around an axis perpendicular to the axis of the
1/02	• gravity-actuated [1, 2006.01]		piston [1, 2006.01]
1/04 1/06	 for wings which lift during movement [1, 2006.01] Mechanisms in the shape of hinges or pivots, operated by the weight of the wing [1, 2006.01] 	3/08	• • in which a torsion spring rotates a member around an axis arranged in the direction of the axis of the piston [1, 2006.01]
1/08 1/10	 spring-actuated [1, 2006.01] for swinging wings [1, 2006.01] 	3/10	• • with a spring, other than a torsion spring, and a piston, the axes of which are the same or lie in the same direction [1, 2006.01]
1/12	• • • Mechanisms in the shape of hinges or pivots, operated by springs [1, 2006.01]	3/12	Special devices controlling the circulation of the liquid, e.g. valve arrangement (valves <u>per se</u>
1/14	• • with double-acting springs, e.g. for closing and opening or checking and closing [1, 2006.01]		F16K) [1, 2006.01]
1/16	 for sliding wings [4, 2006.01] 	3/14	• with fluid brakes of the rotary type [1, 2006.01]
		3/16	• with friction brakes [1, 2006.01]
3/00	Closers or openers with braking devices, e.g. checks;	3/18	• with counteracting springs (double-acting springs
	Construction of pneumatic or liquid braking devices		E05F 1/14) [1, 2006.01]
	(construction of non-pneumatic or non-liquid braking	3/20	 in hinges [1, 2006.01]
	devices E05F 5/00; friction devices in hinges	3/22	Additional arrangements for closers, e.g. for holding
	E05D 11/08) [1, 2006.01]		the wing in opened or other position [1, 2006.01]
3/02	• with pneumatic piston brakes (rotary type E05F 3/14) [1, 2006.01]		
3/04	 with liquid piston brakes (rotary type E05F 3/14) [1, 2006.01] 		

5/00	Braking devices, e.g. checks; Stops; Buffers (construction of pneumatic or liquid braking devices E05F 3/00; braking devices, buffers or end stops on drawers for tables, cabinets or like furniture A47B 88/473; combined with devices for holding wings open E05C 17/00; devices for limiting opening of wings or for holding wings open by a movable member extending between frame and wing E05C 17/04) [1, 4, 2006.01, 2017.01]								
5/02	 specially for preventing the slamming of wings [1, 2006.01] 								
5/04	 hand-operated; operated by centrifugal action [1, 2006.01] 								
5/06	• Buffers (E05F 5/02 takes precedence) [1, 2006.01]								
5/08	• • with springs [1, 2006.01]								
5/10	 with piston brakes [1, 2006.01] 								
5/12	• specially for preventing the closing of a wing before another wing has been closed [1, 2006.01]								
7/00	Accessories for wings not provided for in other groups of this subclass (specially adapted for furniture A47B 95/00; door-lifters B66F, E04F 21/00; knobs or handles E05B) [1, 2, 2006.01]								
7/02	• for raising wings before being turned [1, 2006.01]								
7/04	 Arrangements affording protection against rattling (with buffering action E05F 5/00) [1, 2006.01] 								
7/06	• Devices for taking the weight of the wing, arranged away from the hinge axis [1, 2006.01]								
7/08	• Means for transmitting movements between vertical and horizontal sliding bars, rods, or cables (means for transmitting movements between vertical and horizontal sliding bars, rods, or cables, for the fastening of wings E05C 9/24) [1, 2006.01]								
<u>Operatin</u>	g mechanisms for wings [2]								
9/00	Means for operating wings by hand rods not guided in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01]								
11/00	Man-operated mechanisms for operating wings, including those which also operate the fastening								
	(connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01]								
11/02	 for wings in general, e.g. fanlights (E05F 11/36 takes precedence; for windows to be lowered vertically E05F 11/38; for doors E05F 11/54) [1, 2006.01] 								
11/04	• • with cords, chains, or cables [1, 2006.01]								
11/06	• • • in guide-channels [1, 2006.01]								
11/08	• • with longitudinally-moving bars guided, e.g. by pivoted links, in or on the frame [1, 2006.01]								
11/10	• • • Mechanisms by which a handle moves the bar [1, 2006.01]								
11/12	• • • Mechanisms by which the bar shifts the wing [1, 2006.01]								
11/14	• • • directly, i.e. without links, shifting the wing, e.g. by rack-and-gear or pin-and- slot [1, 2006.01]								
11/16	• • • • shifting the wing by pivotally-connected members moving in a plane perpendicular to the pivot axis of the wing [1, 2006.01]								

consisting of a lever, e.g. an angle lever, only **[1, 2006.01]** • • • consisting of a lever, e.g. an angle lever, and only one additional link **[1, 2006.01]** 11/20 • .

11/22	• • • • consisting of a lever, e.g. an angle lever, and two or more additional links in corrige [1, 2006 01]							
11/24	 series [1, 2006.01] shifting the wing by pivotally-connected members moving in a plane parallel to the 							
	pivot axis of the wing [1, 2006.01]							
11/26	• • • • consisting of a lever, e.g. an angle lever, only [1, 2006.01]							
11/28	• • • • consisting of a lever, e.g. an angle lever, and one or more additional links [1, 2006.01]							
11/30	• • • • consisting of links in rhomb form [1, 2006.01]							
11/32	• • with rotary bars guided in the frame (E05F 11/34 takes precedence) [1, 2006.01]							
11/34	• • with screw mechanisms [1, 2006.01]							
11/36	specially designed for passing through a wall [1, 2006.01]							
11/38	 for sliding windows, e.g. vehicle windows, to be opened or closed by vertical movement [1, 2006.01] 							
11/40	• • operated by screw mechanism [1, 2006.01]							
11/42	 operated by rack bars and toothed wheels [1, 2006.01] 							
11/44	• • operated by one or more lifting arms [1, 2006.01]							
11/46	• • operated by lazy-tongs mechanism [1, 2006.01]							
11/48	 operated by cords or chains [1, 2006.01] 							
11/50	 Crank gear with clutches or retaining brakes, for operating window mechanisms [1, 2006.01] 							
11/52	 combined with means for producing an additional movement, e.g. a horizontal or a rotary movement [1, 2006.01] 							
11/53	 for sliding windows, e.g. vehicle windows, to be opened or closed by horizontal 							
	movement [2, 2006.01]							
11/54	• for doors [1, 2006.01]							
13/00	Operating mechanisms for wings, operated by the movement or weight of a person or vehicle (through							
	power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01]							
13/02	• by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01]							
13/04	 by platforms lowered by the weight of the user [1, 2006.01] 							
15/00	Power-operated mechanisms for wings (motor-							
	operated accessories in locks for completing closing or							
	initiating opening of a wing E05B 17/00) [1, 2006.01, 2015.01]							
15/40	 Safety devices, e.g. detection of obstructions or end positions [2015.01] 							
15/41	• Detection by monitoring transmitted force or torque (E05F 15/48 takes precedence); Safety							
	couplings with activation dependent upon torque or force, e.g. slip couplings [2015.01]							
15/42	 Detection using safety edges [2015.01] 							
15/43	 responsive to disruption of energy beams, e.g. light or sound [2015.01] 							
15/44	 responsive to changes in electrical conductivity [2015.01] 							
15/46	 responsive to changes in electrical capacitance [2015.01] 							
15/47	• • responsive to changes in fluid							

pressure **[2015.01]** by transmission of mechanical forces, e.g. by rigid or movable members **[2015.01]** 15/48• • •

. .

11/18

15/49	• • specially adapted for mechanisms operated by	15/652								
	fluid pressure, e.g. detection by monitoring									
	transmitted fluid pressure (E05F 15/47 takes precedence) [2015.01]	15/655								
15/50	 using fluid-pressure actuators [2015.01] 	• ·								
15/51	 for folding wings [2015.01] 	5								
15/53	 for swinging wings [2015.01] 									
15/54	 • • operated by linear actuators acting on a helical 	15/662								
15/54	track coaxial with the swinging axis [2015.01]	13/ 002								
15/56	• • for horizontally-sliding wings [2015.01]									
15/57	 for vertically-sliding wings [2015.01] 									
15/59	 • for overhead wings [2015.01] 									
15/60	• using electrical actuators [2015.01]									
15/603	-	15/673								
15/605										
15/608		15/676								
15/611		15/678								
15/614										
15/014	which being mounted at the wing pivot axis;	15/681								
	operated by a motor acting directly on the									
	wing pivot axis [2015.01]	15/684								
15/616	• • • • operated by push-pull mechanisms [2015.01]	15/686								
15/619	• • • • • using flexible or rigid rack-and-pinion	15/689								
	arrangements [2015.01]									
15/622	8	15/692								
	mechanisms [2015.01]	45 (005								
15/624	8	15/695								
15/627	Francis States States S	15/697								
	elements, e.g. belts, chains or cables (using	15/70								
	flexible elongated push-pull mechanisms E05F 15/619) [2015.01]	15/70								
15/63	• • • • operated by swinging arms [2015.01]	15/71								
15/632		15/72								
15/635		13/72								
13/033	flexible or rigid rack-and-pinion	15/73								
	arrangements (E05F 15/652 takes	10//0								
	precedence) [2015.01]	15/74								
15/638	• • • • allowing or involving a secondary	15/75								
	movement of the wing, e.g. rotational or									
	transversal [2015.01]	15/76								
15/641	• • • • • operated by friction wheels [2015.01]									
15/643										
	elements, e.g. belts, chains or cables (by	15/77								
	flexible elongated push-pull mechanisms	15/78								
15/040	E05F 15/635) [2015.01]	15/79								
15/646	••••• allowing or involving a secondary movement of the wing, e.g. rotational or									
	transversal [2015.01]	17/00								
15/649										
0										

15/657 15/659 15/662	•	•	•	•	 wings [2015.01] enabling manual drive, e.g. in case of power failure [2015.01] Control circuits therefor [2015.01] Motor units therefore a g ground 		
	•	•	•	•	 Motor units therefor, e.g. geared motors [2015.01] 		
15/665	•	•	•	to	or vertically-sliding wings [2015.01]		
15/668	•	•	•	•	for overhead wings [2015.01]		
15/67	•	•	•	•	• operated by flexible or rigid rack-and- pinion arrangements [2015.01]		
15/673	•	•	•	•	 operated by screw-and-nut mechanisms [2015.01] 		
15/676	•	•	•	•	 operated by friction wheels [2015.01] 		
15/678	•	•	•	•	 operated by swinging lever arms [2015.01] 		
15/681	•	•	•	•	• operated by flexible elongated pulling elements, e.g. belts [2015.01]		
15/684	•	•	•	•	• • by chains [2015.01]		
15/686	•	•	•	•	• • by cables or ropes [2015.01]		
15/689	•	•	•	•	specially adapted for vehicle windows [2015.01]		
15/692	•	•	•	•	 enabling manual drive, e.g. in case of power failure [2015.01] 		
15/695	•	•	•	•	Control circuits therefor [2015.01]		
15/697	•	•	•	•	 Motor units therefor, e.g. geared motors [2015.01] 		
15/70	•	W	ith	aut	tomatic actuation [2015.01]		
15/71	•	•			onsive to temperature changes, rain, wind or e [2015.01]		
15/72	•	•			onsive to emergency conditions, e.g. [2015.01]		
15/73	•	•			consive to movement or presence of persons or [2015.01]		
15/74	•	•	•	us	sing photoelectric cells [2015.01]		
15/75	•	•	•		sponsive to the weight or other physical ontact of a person or object [2015.01]		
15/76	•	•	•	ob	sponsive to devices carried by persons or ojects, e.g. magnets or reflectors C05F 15/77 takes precedence) [2015.01]		
15/77	•	•	us	sing	g wireless control [2015.01]		
15/78	•	•	•	us	sing light beams [2015.01]		
15/79	•	•	us	sing	g time control [2015.01]		
 17/00 Special devices for shifting a plurality of wings operated simultaneously (for simultaneously moving a plurality of interconnected ventilating lamellae E06B 7/086) [1, 2, 2006.01] 							

E05G SAFES OR STRONG-ROOMS FOR VALUABLES; BANK PROTECTION DEVICES; SAFETY TRANSACTION PARTITIONS (alarm arrangements <u>per se</u> G08B) [2]

Note(s) [2]

In this subclass, the following terms or expressions are used with the meanings indicated:

- "bank" is a building or portion of a building devoted to the safekeeping or exchange of valuables between the "bank" and its customers;
- "bank protection device" is a mechanism in or on a bank for protecting the valuables or repelling attacks by stealth or force.
- 1/00 Safes or strong-rooms for valuables (savings boxes A45C 1/12; floatable safes B63C 7/30; storage containers without attack or fire repellent features B65D; bank buildings in general, e.g. modular

construction, floor plan, E04H 1/06; buildings resistant to earthquake or war action E04H 9/00) **[1, 2006.01]**

- 1/02 Details (safe hinges E05D 7/14) **[1, 2006.01]**
- 1/024 • Wall or panel structure **[2, 2006.01]**

- 1/026 Closures (protective doors, windows, or like closures against air-raid or other war-like action E06B 5/10; shutters, movable grilles, other safety closures E06B 9/02) [2, 2006.01]
- 1/04 • Closure fasteners (locks E05B) [1, 2006.01]
- 1/06 having provision for multiple
- compartments **[2, 2006.01]**
- 1/08 • secured individually [2, 2006.01]
- 1/10 with alarm, signal, or indicator (burglar, theft, or intruder alarm per se G08B 13/00; fire or explosion alarm per se G08B 17/00) [2, 2006.01]
- 1/12 with fluent-material releasing, generating, or distributing means, e.g. repellent or fire extinguishing (E05G 1/14 takes precedence; identifying, scaring or incapacitating burglars, thieves, or intruders with smoke, gas, powder, or liquid G08B 15/02) [2, 6, 2006.01]

- 1/14 with means for marking or destroying the valuables, e.g. in case of theft [6, 2006.01]
- 5/00 Bank protection devices (E05G 1/12, E05G 7/00 take precedence; closed-circuit television systems H04N 7/18) [2, 2006.01]
- 5/02 Trapping or confining mechanisms (thief or burglar incapacitating means in general G08B 15/00) **[2, 2006.01]**
- 7/00 Safety transaction partitions, e.g. movable payplates (non-safety paying counters, e.g. for supermarkets, A47F 9/02) [2, 2006.01]