

SECTION E — FIXED CONSTRUCTIONS

E05 LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES

E05B LOCKS; ACCESSORIES THEREFOR; HANDCUFFS

Note(s) [2014.01]

- Operating or controlling of locks for vehicle wings are classified in groups E05B 77/00-E05B 81/00.
- 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.....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.....39/00-45/00

LOCKS WITH PROVISION FOR LATCHING.....55/00-61/00

LOCKS WITH OTHER SPECIAL STRUCTURAL FEATURES.....63/00

LOCKS FOR SPECIAL USE.....65/00, 69/00-75/00

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

HANDCUFFS.....75/00

Details or accessories of locks or the like; Keys

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| <p>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]</p> <p>1/02 • of solid material [1, 2006.01]</p> <p>1/04 • with inner rigid member and outer cover or covers [1, 2006.01]</p> <p>1/06 • of sheet material [1, 2006.01]</p> <p>3/00 Fastening handles to lock or latch parts [1, 2006.01]</p> <p>3/02 • Fastening handles to the spindle by pinning or riveting [1, 2006.01]</p> <p>3/04 • Fastening the handle shank to the spindle by screws, springs, or snap bolts [1, 2006.01]</p> <p>3/06 • by means arranged in or on the rose [1, 2006.01]</p> <p>3/08 • Fastening the spindle to the follower [1, 2006.01]</p> <p>3/10 • by a bipartite or cleft spindle in the follower or in the handle shank [1, 2006.01]</p> <p>5/00 Handles completely let into the surface of the wing [1, 2006.01]</p> <p>5/02 • able to be turned outwards before operation [1, 2006.01]</p> | <p>5/04 • able to be shifted parallel to the wing after being pulled out [1, 2006.01]</p> <p>7/00 Handles pivoted about an axis parallel to the wing (E05B 5/00 takes precedence) [1, 2006.01]</p> <p>9/00 Lock casings or latch-mechanism casings (padlock casings E05B 67/02; for vehicles E05B 79/04, E05B 85/02) [1, 2006.01]</p> <p>9/02 • of latch-bolt locks [1, 2006.01]</p> <p>9/04 • of cylinder locks [1, 2006.01]</p> <p>9/06 • Fastening together the parts of casings [1, 2006.01]</p> <p>9/08 • Fastening the casings of latch-bolt locks or cylinder locks to the wing [1, 2006.01]</p> <p>9/10 • Coupling devices for the two halves of double cylinder locks [1, 2006.01]</p> <p>11/00 Devices preventing keys from being removed from the lock [1, 2006.01]</p> <p>11/02 • before the wing is locked [1, 2006.01]</p> <p>11/04 • before the wing is closed [1, 2006.01]</p> <p>11/06 • for catching skeleton or incorrect keys [1, 2006.01]</p> <p>13/00 Devices preventing the key or the handle or both from being used [1, 2006.01]</p> |
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E05B

- 13/02 • shaped as sectors of escutcheons, arranged in the keyhole [1, 2006.01]
- 13/04 • shaped as fork-like implements grasping and fixing the key [1, 2006.01]
- 13/06 • shaped as bolt detents arranged in the path of motion of the key bit [1, 2006.01]
- 13/08 • formed by longitudinal bolt or cross-bar connecting the handle with a stationary lock part or fitting [1, 2006.01]
- 13/10 • formed by a lock arranged in the handle [1, 2006.01]

15/00 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]

- 15/02 • Striking-plates; Keepers; Bolt staples; Escutcheons [1, 2006.01]
- 15/04 • Spring arrangements in locks [1, 2006.01]
- 15/06 • Lock wards [1, 2006.01]
- 15/08 • Key guides; Key pins [1, 2006.01]
- 15/10 • Bolts of locks or night latches [1, 2006.01]
- 15/12 • Pins or detents for locking bolts [1, 2006.01]
- 15/14 • Tumblers [1, 2006.01]
- 15/16 • Use of special materials for parts of locks (for handles E05B 1/00) [1, 2006.01]

17/00 Accessories in connection with locks (locks with indicating or timing devices E05B 39/00-E05B 45/00; buffers E05F 5/00; means for preventing rattling of wings E05F 7/04; means for taking the weight of the wing E05F 7/06) [1, 4, 2006.01]

- 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 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]
- 17/20 • 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]
- 17/22 • 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, see 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]

- 25/02 • with tumblers in the cut-out of which the key bit is moved [1, 2006.01]
- 25/04 • with tumblers in which the stop pin is guided from one locked position to the other in an inclined direction [1, 2006.01]
- 25/06 • with tumblers in which the stop pin is guided from one locked position to the other along a curved path [1, 2006.01]
- 25/08 • 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 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]
- 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]

Locks with indicating or timing devices

- 39/00** Locks giving indication of unauthorised unlocking [1, 2006.01]
- 39/02 • with destructible seal closures or paper closures (seals per se 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]
- 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]
- 45/04 • with detonating alarm devices [1, 2006.01]
- 45/06 • Electric alarm locks [1, 2006.01]
- 45/08 • • with contact making inside the lock or in the striking plate [1, 2006.01]
- 45/10 • • • by introducing the key [1, 2006.01]

- 45/12 • • • by movement of the bolt [1, 2006.01]
- 45/14 • • with contact making outside the lock [1, 2006.01]

Operation or control of locks by non-mechanical means, e.g. from a distance

- 47/00** 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]
- 47/02 • Adaptation of locks, latches, or parts thereof, for movement of the bolt by electromagnetic means [1, 2006.01]
- 47/04 • • for unlocking only [1, 2006.01]
- 47/06 • 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]

- 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]

61/00 Other locks with provision for latching [1, 2006.01]**Locks with special structural characteristics or for special use****63/00 Locks with special structural characteristics [1, 2006.01]**

- 63/02 • without springs [1, 2006.01]
- 63/04 • for alternative use on the right-hand or left-hand side of wings [1, 2006.01]
- 63/06 • with lengthwise-adjustable bolts [1, 2006.01]
- 63/08 • Mortise locks [1, 2006.01]
- 63/10 • • requiring only two cylindrical holes in the wing [1, 2006.01]
- 63/12 • with means carried by the bolt for interlocking with the keeper [1, 2006.01]
- 63/14 • 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]
- 63/16 • with the handles on opposite sides moving independently (the latch being secured by the operation of a wing handle E05B 55/14) [1, 2006.01]
- 63/18 • with arrangements independent of the locking mechanism for retaining the bolt in the retracted position [1, 2006.01]
- 63/20 • • released automatically when the wing is 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]
- 65/10 • 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]

- 65/52 • 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]
- 67/06 • 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 rotary or pivotal movement [1, 2006.01]
- 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]
- 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 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 direction [2014.01]
- 81/50 • • Powered actuators with automatic return to the 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]

E05B

- 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]
- 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 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 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 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 Details of vehicle locks not provided for in groups E05B 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 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 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]
- 85/28 • • • in which the member engaging the keeper is shaped as a toothed wheel or the like [2014.01]