COOPERATIVE PATENT CLASSIFICATION

FIXED CONSTRUCTIONS

BUILDING

LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES

NOTES

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 E05B 79/00 – E05B 85/00.
3. In this subclass, it is desirable to add the indexing code(s) of E05Y.

WARNING

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

- E05B 1/02 - E05B 9/06 covered by E05B 13/02 - E05B 13/08 covered by E05B 15/12 covered by E05B 17/02 covered by E05B 19/02 covered by E05B 19/06-E05B 19/08 covered by E05B 19/10-E05B 19/12 covered by E05B 19/16 covered by E05B 21/02-E05B 21/04 covered by E05B 25/00-E05B 25/10 covered by E05B 27/04-E05B 27/06 covered by E05B 29/02-E05B 29/14 covered by E05B 35/04 covered by E05B 37/06 covered by E05B 37/18 covered by E05B 37/22 covered by E05B 45/14 covered by E05B 47/04 covered by E05B 47/08 covered by E05B 49/02-E05B 49/04 covered by E05B 55/02 covered by E05B 55/04 covered by E05B 55/08 covered by E05B 55/10 covered by E05B 55/14-E05B 55/16 covered by E05B 59/02-E05B 59/06 covered by E05B 65/04 covered by E05B 67/12 covered by E05B 67/16 covered by E05B 67/20 covered by E05B 67/30 covered by E05B 67/34 covered by E05B 71/02 covered by

Parts of locks or the like mountable on or in wings

1/00 Knobs or handles for wings; Knobs, handles, or press buttons for locks or latches on wings (E05B 5/00, E05B 7/00 take precedence) 2001/0023

1/0007 . (Knobs (E05B 1/0015, E05B 1/0053, E05B 1/0061, E05B 1/0069 take precedence))

1/0015 . (Knobs or handles which do not operate the bolt or lock, e.g. non-movable; Mounting thereof)

1/003 . (Handles pivoted about an axis perpendicular to the wing (E05B 3/00, E05B 5/00, E05B 13/106 take precedence))

1/0038 . (Sliding handles, e.g. push buttons (E05B 13/105 takes precedence))

1/0046 . (sliding parallel to the plane of the wing)
Parts of locks or the like mountable on or in wings

E05B

1/0053 . . . [Handles or handle attachments facilitating operation, e.g. by children or burdened persons (foot-operation E05B 53/001)]

1/0061 . . . [Knobs or handles with protective cover, buffer or shock absorber]

1/0069 . . . [Sanitary doorknobs or handles, e.g. comprising a disinfectant]

2001/0076 . . . [The handle having at least two operating positions, e.g. the bolt can be retracted by moving the handle either upwards or downwards]

1/0084 . . . [Handles or knobs with displays, signs, labels, pictures, or the like (displays on locks E05B 17/226; displays on keys E05B 19/0088)]

1/0092 . . . [Moving otherwise than only rectilinearly or only rotatively (E05B 5/003 takes precedence)]

1/04 . . . [with inner rigid member and outer cover or covers]

1/06 . . . [of sheet material]

3/00 Fastening [knobs or] handles to lock or latch parts (E05B 79/06 takes precedence)

3/003 . . . [Fastening knobs or handles to hollow cylindrical spindles, e.g. of tubular locks]

2003/006 . . . [Fastening knobs or handles to the spindle by means of tilt-plates]

3/02 . . . [Fastening [knobs or] handles to the spindle by pinning or riveting (E05B 3/10 takes precedence)]

3/04 . . . [Fastening [the knob or] the handle shank to the spindle by screws, springs or snap bolts (E05B 3/10 takes precedence)]

3/06 . . . by means arranged in or on the rose [or escutcheon]

3/065 . . . [with spring biasing means for moving the handle over a substantial distance, e.g. to its horizontal position]

3/08 . . . Fastening the spindle to the follower

3/10 . . . by a bipartite or cleft spindle in the follower or in the handle shank

5/00 Handles completely let into the surface of the wing (E05B 5/00, E05B 85/14) take precedence; [combined with bolt movement E05C 1/00, E05C 3/001]

5/003 . . . [Pop-out handles, e.g. sliding outwardly before rotation]

5/006 . . . [essentially defining a completely closed surface together with the wing]

7/00 Handles pivoted about an axis parallel to the wing (E05B 5/00, E05B 85/14) take precedence; [combined with bolt movement E05C 1/00, E05C 3/001]

9/00 Lock casings or latch-mechanism casings [:]

9/002 . . . [Faceplates or front plates (E05C 9/004 takes precedence)]

2009/004 . . . [Shape of the lock housing]

2009/006 . . . [circular]

2009/008 . . . [circle segment]

9/02 . . . [Casings] of latch-bolt [or deadbolt] locks

9/04 . . . [Casings] of cylinder locks [details specific for pin or ball tumbler cylinder locks E05B 27/0014; details specific for plate tumbler cylinder locks E05B 27/0010]

9/041 . . . [Double cylinder locks (E05B 9/045, E05B 9/048 take precedence)]

9/042 . . . [Stators consisting of multiple parts being assembled together (E05B 9/045 takes precedence)]

2009/043 . . . [whereby the casing contains an inner and outer rotor which are simultaneously operated by a long key]

9/045 . . . [Modular casings for adjusting the length of cylinder locks]

2009/046 . . . (Cylinder locks operated by knobs or handles)

2009/047 . . . [Means for returning cylinder locks to their neutral position]

9/08 . . . Fastening [locks or fasteners or parts thereof, e.g.] the casings of latch-bolt locks or cylinder locks to the wing [on glass wings E05B 65/0025]

9/082 . . . [with concealed screws]

9/084 . . . [Fastening of lock cylinders, plugs or cores]

9/086 . . . [Fastening of rotors, plugs or cores to an outer stator]

9/088 . . . . . . [Means for preventing loss of tumblers during mounting or removal]

9/10 . . . Coupling devices for the two halves of double cylinder locks [: e.g. devices for coupling the rotor with the locking cam (E05B 47/00611 takes precedence)]

9/105 . . . [including disengagement means, e.g. opening from one side being still possible even if the key is inserted from the other side]

11/00 Devices preventing keys from being removed from the lock [: Devices preventing falling or pushing out of keys (preventing turning of the key E05B 13/00; keyhole guards E05B 17/14; E05B 9/045 takes precedence)]

11/005 . . . [by key modifications or attachments, e.g. eccentric centre of gravity]

11/02 . . . before the wing is locked

11/04 . . . before the wing is closed

11/06 . . . for catching skeleton or incorrect keys

13/00 Devices preventing the key or the handle or both from being used [: covers or guards for keyholes E05B 17/14]

13/001 . . . [Covers preventing access to handles or keys]

13/002 . . . [locking the handle (E05B 13/10, E05B 47/0067 take precedence)]

13/004 . . . [by locking the spindle, follower, or the like]

13/005 . . . [Disconnecting the handle (E05B 13/101, E05B 47/00617, E05B 55/06 take precedence)]

13/007 . . . [Handles which are locked or blocked in the open position]

13/008 . . . [A single handle being used for actuation of several wings, e.g. simultaneously]

13/004 . . . shaped as fork-like implements grasping and fixing the key (or a handle, e.g. a thumb-turn)

13/10 . . . formed by a lock arranged in the handle

13/101 . . . [for disconnecting the handle (E05B 13/103, E05B 13/102 take precedence)]

13/103 . . . [Combination lock]

13/105 . . . [the handle being a pushbutton (E05B 13/103 takes precedence)]

13/106 . . . [for handles pivoted about an axis perpendicular to the wing (E05B 13/101, E05B 13/103, E05B 13/102 take precedence)]
Parts of locks or the like mountable on or in wings

15/00 Other details of locks; Parts for engagement by bolts of fastening devices

15/0006 . . . Devices for aligning wing and frame; Anti-rattling devices for (vehicle doors E05B 83/362)

15/0013 . . . (Followers; Bearings therefor)

15/002 . . . (Energy storage by movement of wing)

15/0026 . . . Adaptors cooperating with and acting on keys inserted in an existing lock, e.g. for transformation of a key actuated lock to handle actuation

15/0033 . . . Spindles for handles, e.g. square spindles

15/004 . . . (Lost motion connections)

15/0046 . . . (Ratchet mechanisms)

15/0053 . . . (means providing a stable, i.e. indexed, position of lock parts)

15/006 . . . [Spring-biased ball or roller entering a notch]

2015/0066 . . . [axially operated]

15/0073 . . . [magnetically operated]

15/008 . . . [friction type]

15/0086 . . . [Toggle levers (toggle fasteners E05C 19/14)]

15/0093 . . . [Weight arrangements in locks; gravity activated lock parts (E05B 65/5292, E05B 77/06 take precedence)]

15/02 . . . Striking-plates; Keepers; Bolt staples; Escutcheons (keyhole finders E05B 15/08; escutcheons made of hard materials E05B 15/1614; finger-plates E05B 72/655)

15/0205 . . . [Striking-plates, keepers, staples (means for reducing friction E05B 17/007; electric strikers E05B 47/0046; staples for padlocks E05B 67/383; strikers for espagnolettes E05C 9/1808)]

15/021 . . . [Strikers having multiple positions for the bolt]

2015/0215 . . . [Screw-type]

15/022 . . . [movable, resilient or yieldable (adjustable into different discrete positions E05B 15/024; yieldable striker for emergency opening E05B 65/1026)]

15/0225 . . . [Resilient block type, e.g. made from rubber]

2015/023 . . . [Keeper shape]

2015/0235 . . . [Stud-like]

15/024 . . . [adjustable]

15/0245 . . . [Movable elements held by friction, cooperating teeth, or the like]

15/025 . . . [the striker being movable by a screw/nut]

15/0255 . . . [Deformable element]

2015/026 . . . [using eccentrics]

2015/0265 . . . [pivoting or tilting]

2015/027 . . . [auto-adjustable]

2015/0275 . . . [in two directions]

2015/028 . . . [in three directions]

2015/0285 . . . [Portable striker]

15/029 . . . [Closures, e.g. preventing dirt or paint from entering into the striker]

15/0295 . . . [specially adapted for forked or bifurcated bolts (for vehicles E05B 85/045)]

15/04 . . . Spring arrangements in locks (E05B 3/065, E05B 15/101, E05B 15/143, E05C 19/06 take precedence)

2015/0403 . . . [Wound springs]

2015/0406 . . . [wound in a cylindrical shape]

2015/041 . . . [loaded perpendicular to cylinder axis]

2015/0413 . . . [loaded by compression]

2015/0417 . . . [loaded by traction]

2015/042 . . . [wound in a plane, e.g. spirally]

2015/0424 . . . [of conical shape]

2015/0427 . . . [curved, e.g. toroidal]

2015/0431 . . . [Modifying spring characteristic or tension (E05B 2015/0441 takes precedence)]

2015/0434 . . . [Automatically]

2015/0437 . . . [Attachments or mountings; Mounting of springs]

2015/0441 . . . [Tensioning after mounting]

2015/0444 . . . [Springs additionally fulfilling an electric function]

2015/0448 . . . [Units of springs; Two or more springs working together]

2015/0451 . . . [Folded springs]

2015/0455 . . . [Torsion springs of bar type]

2015/0458 . . . [Leaf springs; Non-wound wire springs]

2015/0462 . . . [Ring springs]

2015/0465 . . . [Cup- or dished-disc springs]

2015/0468 . . . [made of one piece with a lock part]

2015/0472 . . . [Made of rubber, plastics or the like]

2015/0475 . . . [of block type]

2015/0479 . . . [of elastic string type]

2015/0482 . . . [Heavy springs which cannot be operated by hand]

2015/0486 . . . [A single spring working on more than one element]

2015/0489 . . . [on more than one tumbler]

2015/0493 . . . [Overcenter springs]

2015/0496 . . . [Springs actuated by cams or the like]

15/06 . . . Lock wards

15/08 . . . Key guides; Key pins (Keyholes; Keyhole finders E05B 17/10 takes precedence)

15/10 . . . Bolts of locks or night latches (made of hard materials, e.g. to prevent sawing E05B 15/1614; lengthwise adjustable E05B 63/06)

15/101 . . . [Spring-retracted bolts]

15/102 . . . [Bolts having movable elements (E05B 23/00 takes precedence)]

15/104 . . . [Movable key-operated elements ("Schlusselangriff")]

2015/105 . . . [Two pivoting latch elements with opposite inclined surfaces mounted on one slidable main latch-piece]

2015/107 . . . [Roller bolt, i.e. a slidable main latch-piece with a roller-, ball- or barrel-shaped rotating element]

15/108 . . . [Bolts with multiple head (E05B 65/0075 takes precedence)]

15/14 . . . Tumblers

15/143 . . . [elastic, e.g. formed by a spring]

2015/146 . . . [Tumblers with parts movable to each other]

15/16 . . . Use of special materials for parts of locks

15/1607 . . . [Adhesive]

15/1614 . . . [of hard materials, to prevent drilling (E05B 67/04, E05B 67/38 take precedence)]

15/1621 . . . [Hardened bolts, or bolts with hardened inserts]

2015/1628 . . . [Free-rotating protecting covers or discs]

15/1635 . . . [of plastics materials (springs E05B 15/04)]

2015/1642 . . . [for the whole lock]

2015/165 . . . [for bolts]

2015/1657 . . . [for escutcheons]
Parts of locks or the like mountable on or in wings

1700 Accessories in connection with locks (buffers E05F 500; means for preventing rattling of wings E05F 7/06; means for taking the weight of the wing E05F 7/06)

170004 . . . (Lock assembling or manufacturing (making locksmith’s goods of sheet metal B23D 53/38; assembling in general B23P 21/00))

170008 . . . (Lock parts made by extrusion process)

170012 . . . (for lock parts held in place before or during mounting on the wing)

170016 . . . (Defrosting, e.g. heating devices)

17002 . . . (Weather or dirt protection (E05B 15/029, E05B 17/14 take precedence; for vehicle locks E05B 77/34))

170025 . . . (Devices for forcing the wing firmly against its seat or to initiate the opening of the wing (E05B 15/022, E05B 65/0817, E05B 81/20, E05C 19/14 take precedence))

170029 . . . (motor-operated (for vehicles E05B 81/20))

170033 . . . (for opening only (E05B 17/0029 takes precedence))

170037 . . . (Spring-operated)

170041 . . . (Damping means (for vehicles E05B 77/42; time locks with retarders E05B 43/00))

170045 . . . (Silencing devices; Noise reduction (resilient striker E05B 15/022; for vehicles E05B 77/36))

17005 . . . (Preventing accidental lock-out, e.g. by obstruction in the striker (securing the bolt in the retracted position E05B 63/18; stops and buffers preventing the slamming of wings E05F 5/02))

170054 . . . (Fraction or shear lines; Slip-clutches, resilient parts or the like for preventing damage when forced or slammed)

170058 . . . (with non-destructive disengagement (E05B 17/045 takes precedence))

170062 . . . (with destructive disengagement)

170066 . . . (Handles with destructible elements)

17007 . . . (Devices for reducing friction between lock parts (E05B 17/08 takes precedence))

170075 . . . (Insulating, e.g. for limiting heat transfer; Increasing fire-resistance of locks)

170079 . . . (Locks with audio features (E05B 45/00 takes precedence))

170083 . . . (Sound emitting devices, e.g. loudspeakers)

170087 . . . (Sound receiving devices, e.g. microphones)

170091 . . . (including protruding or recessed symbols in a surface for tactile indication/information, e.g. Braille symbols)

2017/0095 . . . (Means preventing wrong operation, e.g. preventing damaging contact between extended bolt and striker or bolt and frame (retaining the bolt in the retracted position E05B 63/18))

1704 . . . (Devices for coupling the turning cylinder of a single or a double cylinder lock with the bolt operating member)
Parts of locks or the like mountable on or in wings

17/2023 . . . [Loose pins, screws, or the like: Portable devices]
17/2026 . . . [automatic, i.e. actuated by a closed door position sensor]
17/203 . . . [not following the movement of the bolt]
17/2034 . . . [moving pivotally or rotatively]
17/2038 . . . [moving rectilinearly]
17/2042 . . . [moving otherwise than only rectilinearly and only pivotally or rotatively]
17/2046 . . . . . [performing both movements simultaneously, e.g. screwing]
17/2049 . . . [following the movement of the bolt]
17/2053 . . . [moving pivotally or rotatively relating to the bolt]
17/2057 . . . . . [moving rectilinearly relating to the bolt]
17/2061 . . . . . [moving otherwise than only rectilinearly and only pivotally or rotatively relating to the bolt]
17/2065 . . . . . [performing both movements simultaneously, e.g. screwing]
17/2069 . . . [by means of an additional dogging movement of a sliding bolt]
17/2073 . . . . . [pivotingly or rotatively]
17/2076 . . . . . [about an axis parallel to its sliding movement]
17/208 . . . . . [by means of an additional dogging movement of a rotary bolt]
17/2084 . . . [Means to prevent forced opening by attack, tampering or jimmying (E05B 15/1614 takes precedence; for ignition or steering locks B60R 25/023)]
17/2088 . . . . . [Means to prevent disengagement of lock and keeper (E05B 63/12 takes precedence)]
17/2092 . . . . . [Means responsive to tampering or attack providing additional locking (for safes E05B 65/0082)]
2017/2096 . . . . [Preventing tampering by removal of lock parts which are vital for the function]
17/22 . . . . . . . Means for operating or controlling lock or fastening device accessories, i.e. other than the fastening members, e.g. switches, indicators (E05B 39/00 - E05B 45/00 take precedence)
17/223 . . . [preventing lock actuation after detection of drug use, e.g. alcohol consumption]
17/226 . . . . . . . [Displays on locks, e.g. LED or LCD screens (on handles E05B 1/0084; on keys E05B 19/0088)]

19/00 Keys; Accessories therefor: (key modifications or attachments preventing removal from the lock E05B 11/005; key rings A44B 15/00; key cases A45C 11/32; key holders A47G 29/10;) making keys, see the relevant places, e.g. B21D 53/42; milling grooves in keys B23C 3/35)
19/0005 . . . . . . . [Key safes (E05B 35/086 takes precedence)]
19/0011 . . . . . . . [Key decoders (general measuring of contours and curvatures G01B 3/14, G01B 5/20, G01B 7/28)]
19/0017 . . . . . . . [Key profiles]
19/0023 . . . . . . . [characterized by variation of the contact surface between the key and the tumbler pins or plates]
19/0029 . . . . . . . [characterized by varying cross-sections of different keys within a lock system (cross-sections of single keys E05B 19/0041)]
19/0035 . . . . . . . [characterized by longitudinal bit variations]
19/0041 . . . . . . . [characterized by the cross-section of the key blade in a plane perpendicular to the longitudinal axis of the key]
19/0047 . . . . . . . [with substantially circular or star-shape cross-section]
19/0052 . . . . . . . [Rectangular flat keys]
19/0058 . . . . . . . [with key bits on at least one wide side surface of the key]
19/0064 . . . . . . . [and with additional key bits on at least one narrow side edge of the key]
19/007 . . . . . . . [with U- or V-shaped cross-section]
19/0076 . . . . . . . [Keys with a curved longitudinal axis]
19/0082 . . . . . . . [Keys or shanks being removabley stored in a larger object, e.g. a remote control or a key fob (general constructional details of electronic keys G07C 9/00944)]
19/0088 . . . . . . . [Displays on keys, e.g. LED or LCD screens]
19/0094 . . . . . . . [protruding elements on the key preventing unauthorized insertion into the keyhole]
19/04 . . . . . . . . . . . Construction of the bow [or head] of the key; Attaching the bow to the shank
19/043 . . . . . . . . . . . [the shank being pivotally mounted on the bow, e.g. for storage]
19/046 . . . . . . . . . . . [the shank being slidingly mounted on the bow, e.g. for storage]
19/14 . . . . . . . . . . . [Double [or multiple] keys [e.g. with two or more bors or bits (see also E05B 35/14)]
19/18 . . . . . . . . . . . [Keys adjustable before use]
19/20 . . . . . . . . . . . [Skeleton keys; Devices for picking locks; Other devices for similar purposes [Means to open locks not otherwise provided for, e.g. lock pullers (forcing doors open A62B 3/005)]
19/205 . . . . . . . . . . . [Lock decoders]
19/22 . . . . . . . . . . . [Keys with devices for indicating whether the last operation was locking or unlocking]
19/24 . . . . . . . . . . . [Key distinguishing marks (fluorescent E05B 17/106)]
19/26 . . . . . . . . . . . [Use of special materials for keys (fluorescent E05B 17/106; magnets E05B 47/0038)]

Locks with rotary keys moving lamelliform tumblers perpendicular to the key

21/00 Locks with lamelliform tumblers [which are not set by the insertion of the key and] in which the tumblers do not follow the movement of the bolt [e.g. Chubb-locks]
21/003 . . . . . . . . . . . [comprising tumblers moving in opposite directions, e.g. tumbler sets on opposite sides of the keyhole for operation by a double-bit key]
21/006 . . . . . . . . . . . [the bolt being operated by other means than the key bit, e.g. via a key-operated thrower]
21/06 . . . . . . . . . . . [Cylinder locks, e.g. protector locks]
21/063 . . . . . . . . . . . [of the sliding-plate tumbler type]
21/066 . . . . . . . . . . . [of the rotary-disc tumbler type (tumblers which are set by inserting the key E05B 29/0013)]

23/00 Locks with lamelliform tumblers [which are not set by the insertion of the key and] in which the tumblers follow the movement of the bolt

27/00 Cylinder locks [and other locks] with tumbler pins which are set by pushing the key in (fixing of cylinders, rotors, plugs or cores E05B 9/084; with magnetic tumblers E05B 47/0044; with electromagnetic control E05B 47/0611)
Locks with rotary keys moving lamelliform tumbler perpendicular to the key

E05B

27/0003 . [Details]
27/0007 . [Rotors]
27/001 . . [having relatively movable parts, e.g. coaxial- or split-plugs (for anti-picking purposes E05B 27/0075)]
27/0014 . . [Stators (cylinder lock casings in general E05B 9/04)]
27/0017 . . [Tumblers or pins]
27/0021 . . [having movable parts]
2027/0025 . . [having means preventing rotation of the tumbler]
27/0028 . . [Other locks than cylinder locks with tumbler pins or balls]
27/0032 . . [with both axially and radially arranged tumbler pins or balls]
27/0035 . . [with indirectly actuated tumblers]
27/0039 . . [with pins which slide and rotate about their axis]
27/0042 . . [with additional key identifying function, e.g. with use of additional key operated rotor-blocking elements, not of split pin tumbler type (E05B 27/0078 takes precedence)]
27/0046 . . [Axially movable rotor]
27/005 . . [with changeable combinations]
27/0053 . . [for use with more than one key, e.g. master-slave key (master key systems in general E05B 35/10)]
27/0057 . . [with increased picking resistance]
27/006 . . . [whereby a small rotation without the correct key blocks further rotation of the rotor (E05B 27/0067 takes precedence)]
27/0064 . . . [whereby the rotor is irreversibly blocked or can only be moved back with an authorized tool or key]
27/0067 . . . [whereby a small rotation without the correct key blocks further movement of a tumbler (E05B 27/0082 takes precedence)]
27/0071 . . . [by means preventing opening by using the bump-technique]
27/0075 . . . [by movable rotor elements]
27/0078 . . . [Asymmetrical tumbler pins, e.g. with a key operating on a radial protrusion of a tumbler pin]
27/0082 . . . [Side bar locking]
27/0085 . . . [wherein the key can be inserted or withdrawn in different positions or directions (in general E05B 63/0047)]
27/0089 . . . [wherein the key can be withdrawn in several angular positions]
27/0092 . . . [wherein the key can be inserted from both sides of the lock]
27/0096 . . . [reversible keys]
27/002 . . . operated by the edge of the key
27/008 . . . arranged axially
27/0083 . . . [of the split-pin tumbler type]
27/0086 . . . [of the bar-tumbler type, the bars having slots or protrusions in alignment upon opening the lock]
2027/10 . . . [Tumblers operated by other surfaces than the edge of the key]
29/00 Cylinder locks [and other locks] with plate tumblers which are set by pushing the key in
{i.e. fastening of cylinders, rotors, plugs or cores E05B 9/084; with magnetic tumblers E05B 47/0044; with electromagnetic control E05B 47/0611}
Locks with rotary keys moving lamelliform tublers perpendicular to the key \( \text{E05B} \)

37/00 Permutation (or combination) locks \((\text{handles with combination locks E05B 13/103; keyhole guards with combination locks E05B 17/145;})\) electric permutation locks \(\text{E05B 49/00}\); Puzzle locks

37/0003 \((\text{Locks giving indication or unauthorized unlocking})\)

37/0006 \((\text{by avoiding detection of the combination})\)

37/0001 \((\text{through listening or feeling})\)

37/0013 \((\text{by producing noise})\)

37/0017 \((\text{by producing false clicks; by use of false gates})\)

37/002 \((\text{Speed sensors})\)

37/0024 \((\text{limited number of tries})\)

37/0027 \((\text{X-ray protection})\)

37/0031 \((\text{Locks with both permutation and key actuation})\)

37/0034 \((\text{actuated by either})\)

37/0037 \((\text{with a key requiring successive operations, e.g.})\)

37/0041 \((\text{Key actuation allowing recovery of a lost/})\)

37/0044 \((\text{with telephone-type dial})\)

37/0048 \((\text{with changeable combination})\)

37/0051 \((\text{by moving pins to another hole})\)

37/0055 \((\text{by radial disengagement between hub and rim of})\)

37/0058 \((\text{by axial disengagement between hub and rim of})\)

37/0062 \((\text{Operation by feeling, e.g. in darkness using Braille})\)

37/0065 \((\text{Master combination})\)

37/0068 \((\text{in padlocks})\)

37/0072 \((\text{Sign-, picture- or letter-based permutations})\)

37/0075 \((\text{Automatic scrambling})\)

37/0079 \((\text{when unlocking})\)

37/0082 \((\text{when locking})\)

37/0086 \((\text{when the wing is opened})\)

37/0089 \((\text{when the wing is closed})\)

37/0093 \((\text{Obligatory manual scrambling})\)

37/0096 \((\text{with tumbler discs arranged on concentric axes, each axis being operated by a different rotating knob})\)

37/02 \((\text{with tumbler discs or rings arranged on a single axis, each disc being adjustable independently of the others})\)

37/025 \((\text{in padlocks})\)

37/04 \((\text{with tumbler discs on a single axis, all the discs being adjustable by rotating a shiftable knob})\)

37/08 \((\text{with tumbler discs on a single axis, all the discs being adjustable by a rotary knob which is not shifted})\)

37/10 \((\text{in padlocks})\)

37/12 \((\text{with tumbler discs on several axes})\)

37/14 \((\text{in padlocks})\)

37/16 \((\text{with two or more push or pull knobs, slides, or the like})\)

37/163 \((\text{the knobs being pushed in a prescribed sequence})\)

37/166 \((\text{each knob being pushed a predetermined number of times})\)

37/20 \((\text{Puzzle locks; e.g. of labyrinth type; Fasteners with hidden or secret actuating mechanisms})\)

Locks with indicating or timing devices

39/00 Locks giving indication of \((\text{authorised or})\)

39/002 \((\text{by releasing a liquid, e.g. ill-smelling or dye})\)

39/005 \((\text{Locks with means for tracking the location of})\)

39/007 \((\text{with destructible seal closures or paper closures})\)

39/025 \((\text{with fracturable glass or the like, e.g. for})\)

39/04 \((\text{with counting or registering devices})\)

41/00 Locks with visible indication as to whether the lock \((\text{is locked or unlocked})\)

43/00 Time locks

43/002 \((\text{using mechanical clocks})\)

43/005 \((\text{Timer devices controlling electrically operated})\)

43/007 \((\text{using hydraulic or pneumatic retarders})\)

45/00 Alarm locks

45/005 \((\text{Chain-locks, cable-locks or padlocks with alarms})\)

45/02 \((\text{with mechanically-operated bells})\)

45/04 \((\text{with detonating alarm devices})\)

45/06 \((\text{Electric alarm locks})\)

45/0605 \((\text{for preventing of leaving the key})\)

45/061 \((\text{for combination locks})\)

45/0615 \((\text{triggered by movement of the handle})\)

45/062 \((\text{by traction on a chain})\)

45/0625 \((\text{by pressure on a safety bar})\)

45/063 \((\text{by movement of the wing})\)

45/0635 \((\text{by rotation of key or rotor})\)

45/064 \((\text{by movement of the lock housing or part thereof})\)

45/0645 \((\text{by movement of the keyhole cover})\)

45/065 \((\text{Switch or sensor type used in alarm locks})\)

45/0655 \((\text{Photo-diodes})\)

45/066 \((\text{Mercury switches})\)

45/0665 \((\text{Magnetic switches, e.g. reed- or hall-switch})\)

45/067 \((\text{Switches triggered by inertia})\)

45/0675 \((\text{Foam or rubber element with contacts which close a circuit due to deformation of the})\)

45/068 \((\text{Piezo-electric sensors})\)

45/0685 \((\text{Optical fibres for transmitting the sensor signal})\)

45/069 \((\text{Timers therefor})\)
Locks with indicating or timing devices

2045/0695 [Actuation of a lock triggering an alarm system, e.g. an alarm system of a building]
2047/0035 [Actuators being driven in a single direction only]
2045/008 [with contact making inside the lock or in the striking plate]
2047/0036 [Reversible actuators]
2045/083 [with contact making either in the striking plate or by movement of the bolt relative to the striking plate]
2047/0037 [Powered actuators with automatic return to the neutral position by non-powered means, e.g. springs]
45/086 [by transverse movement]
47/0038 [using permanent magnets]
45/10 [by introducing the key (or another object)]
47/004 [the magnets acting directly on the bolt]
45/12 [by movement of the bolt (E05B 45/083 takes precedence)]
47/0041 [with tumbler pins suspended for a pendulum movement]
45/125 [by transverse movement]
47/0042 [with rotary magnet tumblers]

Operation or control of locks by non-mechanical means, e.g. from a distance (locking doors simultaneously in passenger vehicles E05B 65/36; key switches H01H 27/00)

47/00 [Operating or controlling locks or other fastening devices by electric or magnetic means (electric permutation locks E05B 49/00)]
47/0001 [with electric actuators; Constructional features thereof (for vehicles E05B 81/04)]
47/0002 [with electromagnets]
47/0003 [having a movable core]
47/0004 [said core being linearly movable]
47/0005 [said core being rotary movable]
47/0006 [having a non-movable core; with permanent magnet]
47/0007 [with two or more electromagnets]
47/0008 [having different functions]
47/0009 [with thermo-electric actuators, e.g. heated bimetal]
47/0011 [with piezo-electric actuators (piezo-electric devices per se H01L 41/00)]
47/0012 [with rotary electromotors (actuators with rotary electromotors per se H02K 7/06, H02K 23/68)]
47/0013 [more than one motor for the same function, e.g. for redundancy or increased power (electric spare devices E05B 2047/0087)]
47/0014 [Constructional features of actuators or power transmissions therefor (for vehicles E05B 81/24)]
47/0015 [Output elements of actuators]
47/0016 [with linearly reciprocating motion]
47/0017 [with rotary motion]
47/0018 [Details of actuator transmissions]
47/002 [Geared transmissions]
47/0021 [Geared sectors or fan-shaped gears]
47/0022 [Planetary gears]
47/0023 [Nuts or nut-like elements moving along a driven threaded axle]
47/0024 [Cams]
47/0025 [in the form of grooves]
47/0026 [Clutches, couplings or braking arrangements]
47/0027 [using centrifugal action]
47/0028 [using electromagnetic means]
47/003 [of the overload- slip- or friction type]
47/0031 [of the elastic type]
47/0032 [using flywheel action]
47/0033 [using electro-rheological or magnetorheological substances]
47/0034 [using materials with a volume which changes due to electrical voltage or current]
47/0035 [Actuators being driven in a single direction only]
47/0036 [Reversible actuators]
47/0037 [Powered actuators with automatic return to the neutral position by non-powered means, e.g. springs]
47/0038 [using permanent magnets]
47/004 [the magnets acting directly on the bolt]
47/0041 [with tumbler pins suspended for a pendulum movement]
47/0042 [with rotary magnet tumblers]
47/0043 [Mechanical locks operated by cards having permanent magnets]
47/0044 [Cylinder locks with magnetic tumblers (E05B 47/0041, E05B 47/0042 take precedence)]
47/0045 [keys with permanent magnets (E05B 47/0043, E05B 47/0044, E05B 73/0052 take precedence)]
47/0046 [Electric or magnetic means in the striker or on the frame: Operating or controlling the striker plate (E05B 47/0066, E05B 63/248 take precedence)]
47/0047 [Striker rotating about an axis parallel to the wing edge]
47/0048 [Circuits, feeding, monitoring]
47/0049 [Opening, closing of the circuit]
47/0051 [by closing the wing]
47/0052 [opening the circuit by detection of current increase]
47/0053 [by operating the handle]
47/0054 [using microprocessor, printed circuits, or the like]
47/0055 [by blowing]
47/0056 [by sensing the presence of a person, e.g. body heat sensor]
47/0057 [Feeding]
47/0058 [by batteries]
47/0059 [by transfer between frame and wing]
47/0061 [using induction]
47/0062 [by generator]
47/0063 [Energy transfer from key to lock, e.g. for emergency opening]
47/0064 [by solar cells]
47/0065 [Saving energy (E05B 2047/0053, E05B 2047/0074, E05B 2047/0077, E05B 2047/0079, E05B 2047/0081 take precedence)]
47/0066 [Reduced holding current]
47/0067 [Monitoring]
47/0068 [Door closed]
47/0069 [bolt position]
47/0071 [Connecting lockparts by electronic communication means only, e.g. bus systems, time multiplexing]
47/0072 [Operation]
47/0073 [Current to unlock only]
47/0074 [holding means other than current (mechanical, magnetic)]
47/0075 [locked by gravity]
47/0076 [Current to lock only, i.e. "fail-safe"]
47/0077 [holding means other than current]
47/0078 [unlocked by gravity]
47/0079 [Bi-stable electromagnet(s), different pulse to lock or unlock]
47/0081 [Same pulse to lock or unlock]
Operation or control of locks by non-mechanical means, e.g. from a distance

47/0661 . . . [axially, i.e. with an axially engaging blocking element]
47/0665 . . . [radially]
47/0669 . . . . . . [with a pivotally moveable blocking element]
47/0673 . . . . . . [with a rectilinearly moveable blocking element]
47/0676 . . . [by disconnecting the handle]
47/068 . . . . . [axially, i.e. with an axially disengaging coupling element]
47/0684 . . . . [radially]
47/0688 . . . . . . [with a pivotally moveable coupling element]
47/0692 . . . . . [with a rectilinearly moveable coupling element]
47/0696 . . . [locking the bolt by an electromagnet in the striker]

49/00 Electric permutation locks; Circuits therefor [: Mechanical aspects of electronic locks; Mechanical keys therefor (arrangements for sensing or reading record carriers G06K 7/00, G06K 9/00; mechanisms including electronic locks actuated by nonmechanical keys such as passive and active electrical keys and other data carriers G07C 9/00, G07F 7/00; electronic switching H03K 17/00)]
49/002 . . . [Keys with mechanical characteristics, e.g. notches, perforations, opaque marks]
49/004 . . . [actuating mechanical switches]
49/006 . . . [actuating opto-electronic devices]
49/008 . . . . . [by alignment of movable perforated parts, e.g. perforated tumblers]

51/00 Operating or controlling locks or other fastening devices by other non-mechanical means
51/005 . . . [by a bimetallic or memory-shape element (heated by electricity E05B 47/0009; for panic door actuation E05B 65/104)]
51/02 . . . by pneumatic or hydraulic means { (E05B 17/0029 takes precedence) }
51/023 . . . [actuated in response to external pressure, blast or explosion (E05B 65/102 takes precedence)]
2051/026 . . . [with manually generated fluid pressure]

53/00 Operation or control of locks by mechanical transmissions, e.g. from a distance
53/001 . . . [Foot-operation]
53/003 . . . [flexible]
53/005 . . . [Bowden]
53/006 . . . [of ball-train type]
53/008 . . . [by planetary gears]

Locks with provision for latching (for passenger vehicle doors E05B65/20)

55/00 Locks in which a sliding latch is used also as a locking bolt
55/005 . . . [Cylindrical or tubular locks]
55/06 . . . the handle being disconnected { (E05B 13/101, E05B 47/0676 take precedence) }
55/12 . . . the bolt being secured by the operation of a hidden parallel member {; Automatic latch bolt deadlocking mechanisms, e.g. using a trigger or a feeler}
63/00 Locks in which a pivoted latch is used also as locking means

59/00 Locks with latches separate from the lock-bolts or with a plurality of latches or lock-bolts

61/00 Other locks with provision for latching

**Locks (or fastenings) with special structural characteristics or for special use**

63/0004 (Additional locks added to existing lock arrangements)

63/0008 . . . (Mounted on the hinged side of the wing)

63/0013 . . . (Locks with rotary bolt without provision for latching)

63/0017 . . . (Locks with sliding bolt without provision for latching)

63/0021 . . . (the bolt being shot over an increased length by a single turning operation of the key)

2063/0026 . . . (Elongated, e.g. stud-like, striker entering into an opening in which movable detent means engage the elongated striker (stud-like keepers in general E05B 2015/0235))

63/003 . . . (with key ejection means)

63/0034 . . . (Locks for use instead of cylinder locks, e.g. locks with cylinder lock profile and a low security operating mechanism)

2063/0039 . . . (Ground mounted locks or lock elements)

63/0043 . . . (Dummy or simulated locks; Cover elements without lock function)

63/0047 . . . (Locks having a key withdrawable in different positions (cylinder locks E05B 27/0085, E05B 29/0073))

63/0052 . . . (Locks mounted on the “frame” cooperating with means on the “wing” (E05B 47/0046, E05B 65/0829, E05B 65/0847, E05B 65/0882 take precedence))

63/0056 . . . (Locks with adjustable or exchangeable lock parts (adjustable strikers E05B 15/024; adjustable to different keys E05B 35/083, adjustable bolt or backset E05B 63/06; adjustable coupling means for bars, rods, cables E05C 9/20))

63/006 . . . (for different door thicknesses (E05B 9/045 takes precedence; for fastening handles to lock or latch parts E05B 3/00))

63/0065 . . . (Operating modes; Transformable to different operating modes)

63/0069 . . . (Override systems, e.g. allowing opening from inside without the key, even when locked from outside (E05B 65/1086, E05B 9/105 take precedence; by movable striker E05B 63/246))

63/0073 . . . (by withdrawal of the entire lock unit)

63/0078 . . . (allowing opening with key from outside, even with key inserted from inside (E05B 9/10 takes precedence))

2063/0082 . . . (Locking modes)

2063/0086 . . . (Handles used only for locking, while unlocking is achieved by other means)

2063/0091 . . . (Lock actuation dependent on temperature)

2063/0095 . . . (Locking devices actuated or controlled by seismic activity, e.g. earthquakes)

63/02 . . . without springs

63/04 . . . for alternative use on the right-hand or left-hand side of wings

63/042 . . . [constructed symmetrically]

63/044 . . . [with reversible bolt or bolt head]

63/046 . . . [with double-bevelled latch or the like]

63/048 . . . [with bolt heads at both sides of the lock]

63/06 . . . [with lengthwise-adjustable bolts [, with adjustable backset, i.e. distance from door edge]

63/08 . . . Mortise locks (‘mortised work B27F 5/12)

63/10 . . . requiring only two cylindrical holes in the wing

63/12 . . . with means carried by the bolt for interlocking with the keeper

63/121 . . . [using balls or the like cooperating with notches]

63/122 . . . [with transverse, i.e. vertically movable bolt or dropbolt (E05B 63/126 takes precedence)]

63/123 . . . [with circular bolts]

63/125 . . . [with a sliding bolt rotating about its axis, i.e. of bayonet type]

63/126 . . . [the bolt having an additional sliding bolt or movement (E05B 63/121 takes precedence)]

63/127 . . . [the bolt having an additional rotating bolt or movement]

63/128 . . . [with additional bolt in the striker (electric E05B 47/0096)]

63/14 . Arrangement of several locks or locks with several bolts, e.g. arranged one behind the other ([locks having bolts with multiple head E05B 15/108;] with provision for latching E05B 59/00, E05B 61/00)

63/143 . . . [Arrangement of several locks, e.g. in parallel or series, on one or more wings]

63/146 . . . [locks with two or more bolts, each bolt itself being a tumbler]

63/16 . . . with the handles on opposite sides moving independently

63/18 . . . with arrangements independent of the locking mechanism for retaining the bolt (or latch) in the retracted position

63/185 . . . [Preventing actuation of a bolt when the wing is open (E05B 63/20 takes precedence, similar safety devices E05D 15/526)]

63/20 . . . released automatically when the wing is closed ([for panic door locks of the vertical rod type E05B 65/1013])

63/202 . . . [a latch bolt being initially retained in an intermediate position and subsequently projected to its full extent when the wing is closed]

63/205 . . . [by a trigger at the hinged edge of the wing]

2063/207 . . . [Automatic deadlocking]

63/22 . . . operated by a pulling or pushing action perpendicular to the front plate, [i.e. by pulling or pushing the wing itself (without deadlocking E05C 19/02)]
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 ([operating or controlling locks using electric or magnetic means in the striker or on the frame E05B 47/0046, adaptation of locks locking the bolt by an electromagnet in the striker E05B 47/0096, locks with means carried by the bolt for interlocking with the keeper and having additional bolt in the striker E05B 63/128]; hasp locks E05B 65/48)

63/242 [Auxiliary bolts on the frame, actuated by bolts on the wing, or vice versa]

63/244 [the striker being movable for latching, the bolt for unlatching, or vice versa]

63/246 [Emergency release from inside by releasing the striker]

63/248 [the striker being movable for latching, and pushed back by a member on the wing for unlatching, or vice versa]

65/00 Locks [or fastenings] for special use

65/0003 [for locking a plurality of wings, e.g. simultaneously (E05B 65/0017; E05B 77/46; E05B 65/462; E05C 700 take precedence)]

65/0007 [for gates (for wire gates E06B 11/021)]

65/001 [for gas- or watertight wings]

65/0014 [to prevent opening by children (E05B 13/00 takes precedence; child-proof container closures B65D 50/00)]

65/0017 [Jail locks]

65/0021 [for overhead or roll-up doors, e.g. garage doors]

65/0025 [for glass wings]

65/0028 [for narrow-stile wings]

65/0032 [for hotel rooms (electronic G07C 9/00904)]

65/0035 [for privacy rooms, e.g. bathrooms]

2065/0039 [with emergency release]

65/0042 [For refrigerators or cold rooms (E05B 17/0075 takes precedence; magnetic E05C 19/16)]

65/0046 [with a bifurcated bolt]

65/005 [with sliding bolt]

65/0053 [with safety release from inside (by releasing the striker E05B 63/246; similar means for safe doors E05B 65/0078)]

65/0057 [for caskets, coffins or burial vaults (coffins in general A61G 17/02)]

65/006 [for covers or panels (for manholes E02D 29/1427; for holes enabling access to installations in buildings E04F 19/08; for pressure vessels F16D 13/00)]

65/0064 [for openings in masts]

65/0067 [for portable computers, e.g. for locking the screen panel to the keyboard panel]

65/007 [for revolving doors]

65/0075 [for safes, strongrooms, vaults, fire-resisting cabinets or the like (safes, closures and fastenings therefor E05G)]

65/0078 [Safety means for persons trapped within the safe, e.g. release from inside, venting means (by releasing the striker E05B 63/246; similar means for refrigerator or cold-room doors E05B 65/0053)]

65/0082 [with additional locking responsive to attack, e.g. to heat, explosion (in general E05B 17/2092)]

65/0085 [for folding wings, e.g. bi-fold wings]

65/0089 [for utility meters or the like]

65/0092 [for wardrobe trunks]

2065/0096 [Locks for sport stadiums]

65/02 [for thin, hollow, or thin-metal wings]

65/025 [for lockers]

65/06 [for swing doors (or windows, i.e. opening inwards and outwards)]

65/08 [for sliding wings]

2065/0805 [with a handle operating in both directions]

65/0811 [the bolts pivoting about an axis perpendicular to the wings]

65/0817 [with additional movement, e.g. toggle, overcenter, eccentric (toggle fasteners in general E05C 19/14; similar fasteners for building slabs E04B 1/6183)]

65/0823 [cooperating with the slide guide, e.g. the rail]

65/0829 [mounted on the slide guide, e.g. the rail]

65/0835 [the bolts pivoting about an axis parallel to the wings]

65/0841 [and parallel to the sliding direction of the wings]

65/0847 [mounted on the slide guide, e.g. the rail (E05B 65/0841 takes precedence)]

65/0852 [with a bolt under compression force]

65/0858 [comprising simultaneously pivoting double hook-like locking members]

65/0864 [the bolts sliding perpendicular to the wings]

65/087 [the bolts sliding parallel to the wings]

65/0876 [cooperating with the slide guide, e.g. the rail]

65/0882 [mounted on the slide guide, e.g. the rail]

65/0888 [Locking bars]

65/0894 [Portable or removable locks (E05B 65/0864; E05B 65/0888 take precedence)]

65/10 [for panic or emergency doors]

65/1006 [of the vertical rod type]

65/1013 [Trigger means for holding the bolt in the retracted position and releasing the bolt when the door is closed]

65/102 [opening under pressure on the surface of the door itself (E05C 19/02 takes precedence)]

65/1026 [by a yieldable or breakable bolt or striker]

65/1033 [emergency release of windows, window grills, escape hatches or the like]

65/104 [acted in response to heat, e.g. with fusible element, bimetal, memory shape or swelling material]

65/1046 [Panic bars]

65/1053 [sliding towards and away from the door]

65/106 [pivoting]

65/1066 [the pivot axis being substantially parallel to the longitudinal axis of the bar]

65/1073 [the pivot axis being substantially perpendicular to the longitudinal axis of the bar]

65/108 [Electronically controlled emergency exits]

65/1086 [Locks with panic function, e.g. allowing opening from the inside without a key even when locked from the outside]

65/1093 [Dogging means for holding the actuation means, e.g. the actuating handle]

65/44 [for furniture (for drawers E05B 65/46)]

65/46 [for drawers]

65/461 [for cash drawers]
Locks or fastenings with special structural characteristics or for special use

67/00 Padlocks (permutation locks E05B 37/00); Details thereof

67/003 [Chain, wire or cable locks (alarms therefor E05B 45/005; E05B 69/006 takes precedence)]

67/006 [with retraction of the cable for storage (E05B 73/0029 takes precedence; for devices mounted to a fixed surface or a portable object E05B 73/0011)]

67/02 Cases

2067/025 [Bumpers]

67/04 Armoured cases [(parts of the casing protecting the shackle E05B 67/38)]

67/06 Shackles; Arrangement of the shackle

67/063 [Padlocks with removable shackles]

2067/066 [Shackle extensions]

67/08 Padlocks with shackles hinged on the case

67/10 with devices for securing the free end of the shackle

67/14 with devices for securing the hinged end of the shackle

67/18 with devices for securing both ends of the shackle

67/22 Padlocks with sliding shackles, with or without rotary or pivotal movement

67/24 with built-in cylinder locks

67/26 with screw action, with or without the shackle being moved by turning the key

67/28 Padlocks with shackles forming a circle

67/32 Padlocks with pincter-like shackles

67/36 Padlocks with closing means other than shackles (Removable locks, the lock body itself being the locking element; Padlocks consisting of two separable halves or cooperating with a stud)

67/365 with locking means in the form of balls or rollers

67/38 Auxiliary or protective devices {weather protection E05B 17/002; armoured cases E05B 67/041}

67/383 [Staples or the like for padlocks; Lock slings; Arrangements on locks to cooperate with padlocks]

2067/386 [Padlock holders]

Locking devices for clothing, sticks, umbrellas, or cycles

69/00 Devices for locking clothing; Lockable clothing holders or hangers

69/003 [for locking shoes against removal]

69/006 [Lockable hangers or hanger racks]

69/02 Lockable clothing hooks (coin-controlled locking hooks G07F 17/10)

71/00 Locks specially adapted for bicycles, other than padlocks (locks integral with holders for parking or storing bicycles B62H 3/00; locks integral with cycles B62H 5/00)

73/00 Devices for locking portable objects against unauthorised removal; Miscellaneous locking devices (motorcycle helmets A42B 3/04; B62A 11/005; gun racks A47B 81/005; showcases with theft protection A47F 3/002; anti-theft means for peg-boards, grids or rods for hanging merchandise A47F 5/0861; show stands, hangers, shelves with provision against unauthorised removal A47F 7/024; for self-service hand-carts A47F 10/04; locking skis A63C 11/004; locking bolts, nuts or pins F16B 41/00)

73/005 [using chains, cables or the like (chain- or cable-locks of the padlock type E05B 67/003; lockable clothing hangers or hanger racks E05B 69/006)]

73/0011 [with retraction of the flexible element for storage (E05B 73/0029 takes precedence; for padlocks E05B 67/006)]

73/0017 [Anti-theft devices, e.g. tags or monitors, fixed to articles, e.g. clothes, and to be removed at the check-out of shops]

73/0023 [Containers, boxes, cases or the like, e.g. for compact discs or video-cassettes, specially adapted therefore]

73/0029 [Tags wrapped around the protected product using cables, wires or the like, e.g. with cable retraction for tensioning]

73/0035 [for eyeglasses or spectacles]

73/0041 [for essentially round objects, e.g. bottles or racket handles]

73/0047 [Unlocking tools; Decouplers]

73/0052 [of the magnetic type]

73/0058 [for essentially box-shaped devices]

73/0064 [of the mechanical type]
Locking devices for clothing, sticks, umbrellas, or cycles

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)
77/02  for accident situations
77/04  Preventing unwanted lock actuation, e.g. unlatching, at the moment of collision
77/06  by means of inertial forces
77/08  Arrangements for protection of pedestrians
77/10  Allowing opening in case of deformed bodywork, e.g. by preventing deformation of lock parts
77/12  Automatic locking or unlocking at the moment of collision
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
77/16  Preventing locking with the bolt in the unatched position, i.e. when the door is open
77/18  Keyless locking with self-cancelling, e.g. resulting in an unlocking action when the door is being closed
77/20  Override of self-cancelling, e.g. by actuation of the handle while the door is being closed
77/22  Functions related to actuation of locks from the passenger compartment of the vehicle
77/24  preventing use of an inner door handle, sill button, lock knob or the like
77/245  [by blocking the movement of a movable element]
77/26  specially adapted for child safety
77/265  [hand actuated, e.g. by a lever at the edge of the door]
77/28  for anti-theft purposes, e.g. double-locking or super-locking
77/283  [initiated by hand actuation, e.g. by using a mechanical key]
77/287  [Prevention or overriding of a super-lock condition, e.g. for preventing being trapped in the vehicle]
77/30  allowing opening by means of an inner door handle, even if the door is locked
77/32  allowing simultaneous actuation of locking or unlocking elements and a handle, e.g. preventing interference between an unlocking and an unlatching action

77/34  Protection against weather or dirt, e.g. against water ingress (closures or guards for keyholes E05B 17/14)
77/36  Noise prevention; Anti-rattling means
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
77/40  Lock elements covered by silencing layers, e.g. coatings
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)
77/44  Burglar prevention, e.g. protecting against opening by unauthorised tools (E05B 77/28 takes precedence)
77/46  Locking several wings simultaneously
77/465  [Automatic locking when all passengers have left the vehicle]
77/47  by electrical means
77/50  by pneumatic or hydraulic means
77/52  Locking one wing by shutting another
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)

79/00  Mounting or connecting vehicle locks or parts thereof
79/02  Mounting of vehicle locks or parts thereof
79/04  Mounting of lock casings to the vehicle, e.g. to the wing
79/06  Mounting of handles, e.g. to the wing or to the lock
79/08  Mounting of individual lock elements in the lock, e.g. levers
79/10  Connections between movable lock parts
79/12  using connecting rods
79/14  the rods being linked to each other
79/16  characterised by the means for linking the rods to other lock parts, e.g. to levers
79/18  Rod guides
79/20  using flexible connections, e.g. Bowden cables
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)

81/00  Power-actuated vehicle locks
81/01  [Comfort closing, i.e. the locking action for a wing is combined with actuation of other vehicle functions, e.g. locking the doors and closing the windows simultaneously]
81/02  characterised by the type of actuators used
81/04  Electrical (electrical circuits E05B 81/54)
81/05  [moving in one direction only]
81/06  using rotary motors
81/08  using electromagnets or solenoids
81/10  Hydraulic or pneumatic (hydraulic or pneumatic circuits E05B 81/52)
81/12  characterised by the function or purpose of the powered actuators
81/13  [a single actuator for driving a lock and additional vehicle components, e.g. window wipers or window lifters]

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Locks for vehicles other than bicycles

81/14 . . operating on bolt detents, e.g. for unlatching the bolt
81/15 . . [with means preventing the detent to return to its latching position before the bolt has moved to the unlatched position]
81/16 . . operating on locking elements for locking or unlocking action
81/18 . . to effect movement of a bolt or bolts (E05B 81/20 takes precedence)
81/20 . . for assisting final closing or for initiating opening
81/21 . . [with means preventing or detecting pinching of objects or body parts]
81/22 . . by movement of the striker
81/24 . . characterised by constructional features of the actuator or the power transmission
81/25 . . (Actuators mounted separately from the lock and controlling the lock functions through mechanical connections)
81/26 . . Output elements
81/28 . . Linearly reciprocating elements
81/30 . . Rotary elements
81/32 . . Details of the actuator transmission
81/34 . . of geared transmissions
81/36 . . . Geared sectors, e.g. fan-shaped gears
81/38 . . . Planetary gears
81/40 . . . Nuts or nut-like elements moving along a driven threaded axle
81/42 . . . Cams
81/44 . . . in the form of grooves
81/46 . . . Clutches
81/48 . . . Actuators being driven in a single direction
81/50 . . . Powered actuators with automatic return to the neutral position by non-powered means, e.g. by springs
81/52 . . Pneumatic or hydraulic circuits (for locking several wings simultaneously E05B 77/50)
81/54 . . Electrical circuits (for locking several wings simultaneously E05B 77/48)
81/56 . . Control of actuators
81/58 . . . including time control, e.g. for controlling runtime of electric motors
81/60 . . . using pulse control, e.g. pulse-width modulation
81/62 . . . for opening or closing of a circuit depending on electrical parameters, e.g. increase of motor current
81/64 . . . Monitoring or sensing, e.g. by using switches or sensors
81/66 . . . the bolt position, i.e. the latching status
81/68 . . . by sensing the position of the detent
81/70 . . . the wing position
81/72 . . . the lock status, i.e. locked or unlocked condition
81/74 . . . by sensing the state of the actuator
81/76 . . . Detection of handle operation; Detection of a user approaching a handle; Electrical switching actions performed by door handles
81/77 . . . [comprising sensors detecting the presence of the hand of a user]
81/78 . . . as part of a hands-free locking or unlocking operation
81/80 . . . characterised by the power supply; Emergency power operation
81/82 . . . using batteries other than the vehicle main battery
81/84 . . . using manually operated generator means
81/86 . . . using capacitors
81/88 . . . using inductive energy transmission
81/90 . . Manual override in case of power failure

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; latchings means for sideboards or tailgates of open load compartments B62D 33/037)
83/01 . . [Locks for military or armoured vehicles]
83/02 . . Locks for railway freight-cars, freight containers or the like; Locks for the cargo compartments of commercial lorries, trucks or vans
83/04 . . . for sliding wings
83/06 . . . of railway freight-cars
83/08 . . . with elongated bars for actuating the fastening means
83/10 . . . Rotary bars
83/12 . . . for back doors of vans (E05B 83/04, E05B 83/08 take precedence)
83/14 . . . with provisions for sealing
83/16 . . Locks for luggage compartments, car boot lids or car bonnets
83/18 . . . for car boot lids or rear luggage compartments
83/20 . . . with two or more wings, which together close a single compartment
83/22 . . . for luggage compartments at the side of the vehicle, e.g. of buses or camper vans
83/24 . . . for car bonnets
83/243 . . . [Hood clamps, i.e. individually actuated, usually yielding hooks]
83/247 . . . [Simultaneously actuated fasteners at separated positions]
83/26 . . Emergency opening means for persons trapped in the luggage compartment
83/28 . . Locks for glove compartments, console boxes, fuel inlet covers or the like
83/30 . . . for glove compartments
83/32 . . . for console boxes, e.g. between passenger seats
83/34 . . . for fuel inlet covers essentially flush with the vehicle surface
83/36 . . Locks for passenger or like doors
83/365 . . . (for railway vehicles (E05B 77/54 takes precedence))
83/367 . . . [with centering alignment pin]
83/38 . . . for pillar-less vehicles, i.e. vehicles where a front and a back door engage each other in the closed position
83/40 . . . for sliding doors
83/42 . . . for large commercial vehicles, e.g. trucks, construction vehicles or vehicles for mass transport
83/44 . . . for recreational vehicles, e.g. caravans or camper vans
85/00 Details of vehicle locks not provided for in groups E05B 77/00 - E05B 83/00
85/01 . . [Mechanical arrangements specially adapted for hands-free locking or unlocking (handles with means for initiation of a hands-free locking or unlocking process E05B 81/78)]
Locks for vehicles other than bicycles

85/02  .  Lock casings
85/04  .  Strikers
85/045  .  {for bifurcated bolts}
85/06  .  Lock cylinder arrangements
85/08  .  Sill-buttons, garnish buttons or inner door lock knobs
85/085  .  {Manipulators therefor (E05B 19/20 takes precedence)}
85/10  .  Handles
85/103  .  {creating a completely closed wing surface}
85/107  .  {Pop-out handles, e.g. sliding outwardly before rotation}
85/12  .  Inner door handles
85/13  .  .  {with a locking knob forming part of the inside door handle unit}
85/14  .  .  Handles pivoted about an axis parallel to the wing
85/16  .  .  a longitudinal grip part being pivoted at one end about an axis perpendicular to the longitudinal axis of the grip part
85/18  .  .  a longitudinal grip part being pivoted about an axis parallel to the longitudinal axis of the grip part
85/20  .  Bolts or detents
85/22  .  .  Rectilinearly moving bolts
85/24  .  .  Bolts rotating about an axis
85/243  .  .  {with a bifurcated bolt}
85/245  .  .  {with a pair of bifurcated bolts}
85/247  .  .  {about a vertical axis}
85/26  .  .  Cooperation between bolts and detents
85/28  .  .  in which the member engaging the keeper is shaped as a toothed wheel or the like