

68 Locksmiths' products

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- 68a Locks and accessories: handles, keys, lock safety devices, etc. for doors, cabinets, drawers and chests; locks suitable for general use, devices for locking and unlocking keyless locks, devices for securing clothing, locking clothe hooks; shackles for prisoners**
- 68b Bolts, door bars, safety chains, window fastenings; devices for operating bolting and stopping transoms, skylights, and sliding windows; hasps, staples and similar fastening devices**
- 68c Door and window fittings, other structural elements**
- 68d Closers, openers, checks, buffers and stops for doors and windows; automatically closing stop hinges; self-closing sliding door hangers with or without checks**
- 68e Safes, hinges for safes**
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- 68a Locks and accessories: handles, keys, lock safety devices, etc. for doors, cabinets, drawers and chests; locks suitable for general use, devices for locking and unlocking keyless locks; devices for securing clothing, locking clothe hooks; shackles for prisoners**

Locks with rotary keys

- 68a-1 Chubb locks excluding 68a-2
- 68a-2 Chubb locks with tumblers of various types
- 68a-3 Protector locks and similar rotary cylinder locks for rotary keys
- 68a-4 Locks comprising disks, plugs or sleeves rotated by the key, or locks with key-bits remaining in the lock, except 68a-3, 68a-8, 68a-9 and 68a-10
- 68a-5 Locks with stop tumblers rotating about the axis of the key
- 68a-6 Locks in which the tumblers are moved toward the key upon turning the latter
- 68a-7 Locks with movable key engaging members

Locks with push keys: the tumblers are moved by the insertion of the key (locks with rack-type keys 68a-14)

- 68a-8 Rotary cylinder locks with push keys and divided, radially-arranged pin tumblers
- 68a-9 Bramah and Bramah-Chubb locks
- 68a-10 Push-key locks with tumbler cylinder turned by key, except 68a-8 and 68a-9
- 68a-11 Push-key locks without tumbler cylinder turned by key
- 68a-12 Locks for push keys having key openings to permit the entry of tumbler projections
- 68a-13 Locks with keys for guiding the tumblers, and the movement of the bolt by a separate element
- 68a-14 Locks with rack-type key: the key meshes with a toothed wheel inside the lock

Locks with keys of various kinds

- 68a-15 Locks with keys which serve to fill out a detent groove for the tumblers
- 68a-16 Locks with keys which may be shifted laterally exclusive of those in 68a-15; the key is shifted perpendicular to the direction of its insertion
- 68a-17 Locks with pull-keys
- 68a-18 Locks with insertion keys
- 68a-19 Locks with screw keys

Locks with several keys

- 68a-20 Locks with master and change keys

- 68a-21 Locks for two persons, e.g. safe-deposit and safe locks
- 68a-22 Locks which can be locked with any desired key of a series
- 68a-23 Locks with multi-bitted keys, each bit having a separate function (68a-1; 68a-2; 68a-58; 68a-86, etc.)
- 68a-24 Coin or check-controlled locks (43b-51; 43b-55; 68a-110)
- Combination locks: so-called letter, number, combination, or variation locks, permutation locks**
- 68a-25 in general (68a-32, 68a-33, 68a-100, etc.)
- 68a-26 with tumbler disks or rings arranged upon a single axis, each disk being directly set independently of the others
- 68a-27 with tumbler disks upon a single axis, all being set by a movable rotary knob
- 68a-28 with tumbler disks upon a single axis, all being adjusted by a non-movable rotary knob
- 68a-29 with tumbler disks upon different axes
- 68a-30 with push or pull knobs, slides etc.
- 68a-31 Puzzle locks
- Detector locks**
- Locks, visually indicating unauthorised opening
- 68a-32/01 with frangible seal or paper sheet closure
- 68a-32/02 with mechanical indicator devices: counters or recorders
- 68a-32/03 Others
- 68a-33 Locks and keys with visual indication as to whether the lock is locked or unlocked
- 68a-34 Time locks
- Sound alarm locks, also safe locks with sound alarm devices (68e-6; signalling devices separate from lock 74a-21 – 74a-29)**
- 68a-35 Sound alarm locks with mechanically operated bell on lock or key
- 68a-36 Sound alarm locks with detonating alarm (45k-10; 45k-27/00; 74a-29)
- Electric sound alarm locks
- 68a-37/01 with contact in the lock or keeper
- 68a-37/02 with circuit closed outside the lock: contact pins extending into the key hole, sound alarm keys, contact closed by handle
- Devices for locking and unlocking of keyless locks, especially by electrical means (68d-18)**
- 68a-38 Devices for unlocking locks by electrical or magnetic means
- 68a-39 Devices for electrically or magnetically locking, or both unlocking and locking keyless locks
- 68a-40 Devices for bolting and unbolting locks without the use of keys, by means of compressed or suction air, hydraulic fluid, or by mechanical means (synchronised multi-door locking devices for railway carriages 20c-35)
- 68a-41 Locks with various forms of electrical bolting and unbolting, in particular electric combination locks and circuit arrangements therefor, apart from 68a-38, 68a-39 and 68a-42
- 68a-42 Locks in which the key causes the closing of an electrical circuit, or the application of fluid pressure
- 68a-43 Locks without springs
- 68a-44 Locks with loosely inserted parts
- 68a-45/01 Right-and left-hand locks (closures for doors opening to the right or to the left 68c-7)
- 68a-45/02 Locks set by varying the bolt length, or having a variable spindle size
- 68a-46 Mortise locks and locks with removable parts
- 68a-47 Locks in which the bolt and the keeper have interlocking engagement (68a-96)

Latch bolt locks: locks in which the latch serves also as locking bolt

- 68a-48 General, apart from 68a-49 – 68a-55
- 68a-49 with latch fastened directly by tumblers
- 68a-50 with latch fastened directly by transverse bolts or catches, the lock handle being also fastened
- 68a-51 with latch fastened directly by transverse bolts, the lock handle being disconnected
- 68a-52 with latch fastened by hidden parallel bolts
- 68a-53 with fastening of lifting latches
- 68a-54 with direct fastening of handle plug, except 68a-68
- 68a-55 with disconnection of lock handle, without fastening the latch

Locks with latch separated from the bolt or with several latches and bolts

- 68a-56 Locks in which the latch is blocked on sliding forward the lock bolt
- 68a-57 Locks in which the latch is moved by the bolt, or the bolt by the latch, or one latch by another, etc.
- 68a-58 Successive locks, including locks placed behind ordinary mortise locks, also locks for keys with a series of successive bits
- 68a-59 Locks with two independent handles (68a-91)
- 68a-60 Various devices connected to lock latches and plugs (68a-90)
- 68a-61 Locks opened by the application of a pull or push perpendicularly to the cover of the lock
- 68a-62 Locks with means for holding the latch or bolt in the open position (68a-91)

Lock with devices to prevent the withdrawal of the key

- 68a-63 prior to completion of bolting
- 68a-64 prior to completed locking of door
- 68a-65 Locks with key traps

Lock protection devices: keyhole guards and key or handle securers

- 68a-66 Keyhole guards with pins and bits
- 68a-67 Keyhole guards with covers and slides (68a-68)
- Securing of key or handle, or both
- 68a-68/01 by means of cut-outs in keyhole covers
- 68a-68/02 by means of a fork, disk, clamp, etc. engaging with or over the body [of the key]
- 68a-68/03 by means of an obstruction projecting in the path of the bit
- 68a-68/04 Fastening of handle by means of a longitudinal or transverse bolt built into the handle and engaging with a fixed lock or fitting element
- 68a-68/05 Fastening of handle by suspending or supporting of handle grip
- 68a-68/06 Other fastening devices for keys and handles

Lock handles, grips, latches and their fastening (68a-59; window fasteners 68b-9 – 68b-16)

- Handle arrangements and fastenings, also handles adjustable to the thickness of the door
- 68a-69/01 Miscellaneous
- 68a-69/02 Sheet metal handles
- 68a-69/03 Solid handles; handles with solid insert and external covering; handles for doors, door knobs and their fastening to spindles
- 68a-69/04 Handles with two-part or split spindle clamped in plug or handle shank
- 68a-70 Fastening of handle in locks by means of the rosette
- 68a-71 Fastening of the lock handle shank on the spindle by means of screws, springs, spring catches
- 68a-72 Fastening of the lock handle spindle to the plug

68a-73 Lock handles which are laterally adjustable

Parts of locks except those mentioned under 68a-69 – 68a-73 and elsewhere

Bolts, latches and blocking means therefor

68a-74/01 Bolts, latches, night bolts

68a-74/02 Locking pins as bolt blocks

68a-74/03 Catches as bolt blocks (lock tumblers 68a-75)

68a-75 Lock tumblers, also those adjustable by hand and those positively moved

68a-76 Spring arrangement for locks

68a-77/01 Lock wards

68a-77/02 Key pins

68a-77/03 Key guides, fixed and turnable

68a-78 Keyholes, also offset (keyhole guards 68a-66, 68a-67)

68a-79/01 Casings for fixed locks (for padlocks 68a-101)

68a-79/02 Structure of casing components

68a-79/03 Fastenings for ordinary locks

68a-79/04 Fastenings for cylinder locks

68a-79/05 Lock blocks, plates and bolt covers

68a-79/06 Keyhole plates, escutcheons, rosettes

68a-80 Lubricating devices for locks

68a-81 Lock and key illumination (4b-17)

68a-82 Miscellaneous lock elements

Keys

68a-83 Miscellaneous keys, master keys, skeleton keys, aids for removing stuck or broken keys (manufacture of keys 7c-37; 49i-16; 49i-12); key containers, insofar as they are permanently joined with the key (containers for inserted or suspended keys 33b-2; safeguard against theft and loss 33d-13/14); key attachments to prevent unauthorised insertion of key (key rings 44a-46)

68a-84 Adjustable keys

68a-85 Keys with pivoted bit

68a-86 Keys with opposite movement or with adjustment of bits in the lock (68a-23)

68a-87 Safety locks for various purposes

68a-88 Locks for various purposes apart from safety locks appearing in 68a-87 and 68a-89 – 68a-112

Door locks (68a-20, 68a-24, 68a-32 – 68a-34, 68a-38 – 68a-42, 68a-47 – 68a-63)

68a-89 Door locks in general, except 68a-90 – 68a-95

68a-90 Locks for swing doors (locks for doors to be opened to the right and to the left 68c-7)

68a-91 Door locks for railway passenger cars and other vehicles, especially motor vehicles (20c-34)

68a-92 Sliding-door locks, apart from 68a-93

68a-93 Door locks for railway freight cars without detector closure (20c-34)

68a-94 Door locks for freight cars with control lock (68a-32)

68a-95 Mortise locks

Locks for furniture: cabinets, drawers, and chests, also for boxes and cases

68a-96 Furniture locks, except 68a-97

68a-97 Locks for drawers

68a-98 Locks for cases, boxes (68a-99), trunks, albums, portfolios (special closing devices for trunks, baskets, coat-hangers, etc. 33b-4, 33b-13, 33b-14; for albums, portfolios and the like 11e-2)

- 68a-99 Locking bar locks and hasp locks (68a-98)
Padlocks (combination padlocks 68a-25 – 68a-31; chain fasteners 47d-15; rope fasteners 47d-11)
- 68a-100 in general, except 68a-101 – 68a-108
- 68a-101 Structural parts: casing, armour, shackles, as well as auxiliary and protective devices
- 68a-102 without shackles: slip-on or push-through locks (ring-shaped 68a-107)
- 68a-103 with pivoted shackle and locking catch on the shackle head
- 68a-104 with pivoted shackle and locking catch on the hinge link
- 68a-105 with pivoted shackle and locking catch on both the shackle head and the hinge link
- 68a-106 with sliding shackle and movable cross-bolt, with sliding swing shackle and sliding pivoted shackle
- 68a-107 with ring shackle, also ring fastening for the latter (ring fastenings which must be destroyed to release them 81c-16)
- 68a-108 Divided-jaw type (65a-110; 68a-112)
- Fasteners for clothing, canes, umbrellas and bicycles, also shackles for prisoners**
- 68a-109 Devices for locking clothing, locking clothes hangers and lifters (clothe hangers and lifters without locking devices 3b-23, 3b-27/22; cane racks without locking devices 33a-13, non-locking devices for preventing the putting on of hats 41c-6, 41c-1/24; non-locking clothes lifters 34f-22/01)
- 68a-110 Locking clothes hooks (clothes hooks without locking devices 34f-22; coin-controlled locking hooks 43b-51)
- 68a-111 Bicycle locks and miscellaneous locking devices except 68a-109 and 68a-110; (33b-14/01; 63a-47; 63c-71; 63g-9; 63h-16; 74a-26; coin-controlled locks 43b-51; locking devices mounted on bicycles 63f-6, 63f-8 – 63f-10)
- 68a-112 Shackles or other fetters for prisoners
- 68b Bolts, door bars, safety chains, window fastenings; devices for operating bolting and stopping transoms, skylights, and sliding windows; hasps, staples and similar fastening devices**
- Bolts**
- 68b-1/01 Sliding bolts
- 68b-1/02 Eccentric bolts
- 68b-1/03 Turning and sliding round-bolts
- 68b-1/04 Bolts with securing devices
- 68b-1/05 Bolt closures for revolving doors
- 68b-1/06 Bolts for sliding doors
- 68b-1/07 Bolts for car doors
- 68b-1/08 Bolts for fence gates
- 68b-1/09 Catches
- 68b-1/10 Bolts with seal closures
- 68b-1/11 Electrically actuated bolts
- 68b-1/12 Simultaneous unbolting of several doors, unbolting during fire alarm, etc.
- 68b-1/13 Multiple bolts
- 68b-1/14 Common bolt closures for several drawers (33b-13/01)
- 68b-1/15 Other types of bolts
- 68b-2 Flush bolts, including those which permit closing a loose panel only when the bolt has been operated
- 68b-3 Automatic bolts for double doors
- 68b-4 Bolts of the latch type (68a-60)
- 68b-5 Bolting cross bars, stay bars, etc.

Door blocking devices and safety chains (74a-21 – 74a-29)

- 68b-6 Door blocking devices which permit the door to be partially opened
- 68b-7/01 Door blocking devices which permit no movement of the door
- 68b-7/02 Door blocking devices with alarm device
- 68b-8 Safety chains

Window fasteners (68b-17 – 68b-27)

- 68b-9/01 Window fasteners in general, except 68b-17 – 68b-27
- 68b-9/02 Devices to prevent rattling of doors and window
- 68b-10 Espagnolettes, especially bascule-type fastenings for windows (68b-1; 68b-2)
- 68b-11 Rotary bar fastenings, especially Cremona bolts for windows
- 68b-12 Window turnbuckles, swivels, swing latches
- 68b-13 Hooks for window fasteners
- 68b-14 Fasteners and connectors for double windows, and windows with double glass
- 68b-15 Securing window fasteners against unauthorised opening (74a-22)
- 68b-16 Knobs, rotary handles, and similar window fasteners, and means for attaching same (68a-69 – 68a-73)

Devices for operating bolting and stopping transoms (window casements and glass blinds as part of the window 37d-15; devices for holding windows in the adjusted position 68d-19 – 68d-34)

- 68b-17 in general, details
- 68b-18 operated by cords
- 68b-19 operated by hand rods
- 68b-20 operated by sliding bars
- 68b-21 operated by rotary bars
- 68b-22 operated by lazy tongue mechanisms
- 68b-23 operated by toggle levers
- 68b-24 operated by worm, rack and gear, and winding cord, chain, etc.
- 68b-25 with release mechanism
- 68b-26 Devices for operating, bolting, stopping and counterbalancing skylights

Devices for operating, bolting, stopping, and counterbalancing sliding windows of all kinds (actual sliding window structures and guides therefor 20e-39; 37d-10 – 37d-12; 63a-7; 63c-44; 68d-8; 68d-18)**Operators**

- 68b-27/01 in general
- 68b-27/10 with rack and gear drive
- 68b-27/11 with spindle drive
- 68b-27/12 with lazy-tongue mechanisms
- 68b-27/13 with self-locking crank gear
- 68b-27/14 with endless chain or the like
- 68b-27/20 with pistons
- 68b-27/21 with electric motors
- 68b-27/25 for horizontally sliding windows

Stops

- 68b-27/30 engaging notches
- 68b-27/50 actuated by friction

Counterbalancing devices

- 68b-27/70 by means of springs
- 68b-27/71 by means of counterweight, also window serving as counterweight
- 68b-27/75 Structure of counterweight and its attachment to the cord

- 68b-27/76 Detachable cord fasteners on the window
- 68b-27/80 Accessories, e.g. cable drums and their housings, crank designs, couplings
- 68b-28 Devices for operating, bolting, stopping and counterbalancing sliding or draw screens, roll shutters, Venetian blinds, awnings, and the like (structure of sliding or draw screens, roll shutters, Venetian blinds, awnings, and the like, as such, and their guides 37d-25 – 37d-28)
- 68b-29 Hasps, clamps and similar closing devices, also stops for closed doors (manufacture of clamps 7e-19; door buffers and stops 68d-16, 68d-30)
- 68c Door and window fittings, other structural elements, e.g. hinges, sliding door hangers and similar fittings (self-closing hinges and hangers, check hinges and stops 68d)**
- 68c-1 Hinges for doors, windows, and other structural elements except 68c-2 – 68c-8 (other special classes, e.g. hinges for safes 68e-5; for air raid shelters 72g; for railway cars 20c-33 – 20c-37, 20c-39; for motor-car doors 63c-44; for trunks, bags 33b-15/03 (for engine hoods 63c-79; for ladders 34l-23; for furniture 34i-27/01; for electric lamps 21f-58; for toilet seats and covers 34k-8/07; for cigarette cases 44b-25; manufacturing processes 7c-36)
- 68c-2 Adjustable and raisable door and window hinges
- 68c-3 Easily separable door and window hinges, such as pintle hinges
- 68c-4 Ball-bearing hinges
- 68c-5 Door and window hinges with lubricating devices
- 68c-6 Convertible right or left-hand hinges for doors and window
- 68c-7 Hinges for doors and windows opening to the right and to the left, or for vertically and horizontally pivoted doors and windows, also swing-door hinges, and in general, hinges for doors with several axes of rotation
- 68c-8 Window hinges and accessories for windows opening inward and outward as well as for reversible casements
- 68c-9 Hangers and guides for sliding doors (automatically closing hangers 68d-1)
- 68c-10 Various fittings for doors, windows, and other structural elements such as angle pieces with or without pivoted joints, safeguards against lifting out and lowering doors, etc.
- 68d Closers, openers, checks, buffers and stops for doors and windows; automatically closing stop hinges; self-closing sliding door hangers with or without checks (openers, closers and stops for transoms, skylights, and sliding windows 68b, ventilation doors 5d-2)**
- Door closers**
- 68d-1 Door closers in general, except 68d-2 – 68d-7, and elements thereof: door closers with retarding, stopping or sounding devices, with combined spring and gravity operation, self-closing hangers for sliding doors, etc.
- 68d-2 Gravity door closers for slamming doors
- 68d-3 Gravity door closers for swing doors: swing door closers with weights
- 68d-4 Spring door closers for slamming doors
- 68d-5 Spring door closers for swing doors: swing door closers with springs
- 68d-6 Door closers with self-closing gravity-actuated hinges: inclined hinges and obliquely arranged hinges
- 68d-7 Door closers with spring-operated self-closing hinges: spring hinges
- 68d-8 Automatic closing devices for windows, doors and shutters
- Door and window slamming preventing devices with or without closures (stops 68d-19 – 68d-34; checks 58d-29)**
- 68d-9 for doors and windows in general, also elements thereof
- 68d-10 for doors with pneumatic piston checks
- 68d-11 for doors with liquid piston checks

- 68d-12 for swing doors with pneumatic or liquid checks
- 68d-13 for doors with vane piston and rotary piston checks
- 68d-14 for doors with friction checks
- 68d-15 for doors with counter-springs, impeller blades, flywheel checks, etc.
- 68d-16 Buffers to prevent the slamming of doors and windows, also stops to limit opening range of doors (stops for closed doors 68d-29)
- 68d-17 Self-closing hinges with checks preventing door slamming, also swing hinges with checks
- 68d-18 Other devices for opening and closing doors, including sliding doors, windows and shutters by means of levers, treadles, cord pulls, spindles, etc. , also devices designed solely to open doors (operators for transoms, skylights and sliding windows 68b-17 – 68b-28; opening devices for locks 68a-38)

Devices for keeping open windows, shutters, and doors (stops for transoms, skylights and sliding windows 68b-17 – 68b-28; window casements and glass blinds 37d-15)

- 68d-19 Stops in general
- 68d-20 Simple storm hooks and eyes
- 68d-21 Storm hooks with notched bars and adjustable storm hooks, also ball-catch stops
- 68d-22 Latches, catches, spring bolts, etc. (combined with curved bars 68d-24)
- 68d-23 Groove-engaging hooks, bolts, wedges, spring bows, etc.
- 68d-24 Engagement in curved bars, toothed gear sectors and notched sectors
- 68d-25 Linked racks or notched bars
- 68d-26 Bent levers or toggle levers
- 68d-27 Extensible rods
- 68d-28 Crank drives
- 68d-29 Sliding stops and sliding checks
- 68d-30 Stops, chocks, wedges, etc. (stops for closed doors 68b-29)
- 68d-31 Bars and the like, arranged between right and left casements
- 68d-32 Flexible hinges
- 68d-33 Stops for double windows (couplings for double windows 68b-14)
- 68d-34 Stop hinges, friction hinges and levers having means to stop rotating motion

68e Safes, hinges for safes

- 68e-1 Safes in general, also night safes
- 68e-2 Cash-boxes, wall safes
- 68e-3 Armour plates for safes, vaults and cash-boxes protected against burglary, fire and theft; fillers, especially heat-insulating materials for double walls
- 68e-4 Safe bolting devices exclusive of the lock mechanism
- 68e-5 Safe hinges
- 68e-6 Alarm devices, burglar traps, safes, hinges, bank windows, etc. protected by means of gas, water, and the like (locks for safes 68a-35 – 68a-37; burglary and theft alarm devices 74a-21 – 74a-29)