

Appendix A

Magnetic Lock Patents

This is a list of US Patents detailing locks that use magnets as their primary or secondary locking mechanisms. Please [contact me](#) if you have any patents to add to this list. There are a number of patents from Germany, the United Kingdom, and Japan. Unfortunately, their patent websites leave much to be desired so they are not listed here.

Patent #	Title	Description
428,247	Magnetic Lock	1890, Pivoting ferrous pins
468,807	Magnetic Lock	1891, Magnetic pin-based padlock; key pulls pins inward
1,172,203	Magnetic Lock	1914, Magnet key pulls pin-tumblers <i>down</i> to shear-line
1,669,115	Magnetic Key	1925, Pin tumbler with ferrous pins and magnetic keys
2,177,996	Lock	1938, Magnetic cam lock with moving ball bearings
2,384,208	Magnetic Lock	1944, Magnetic padlock with pivoting ferrous plate
2,718,424	Magnetic Lock	1954, Magnetic lock with rotating ferrous bolt
2,931,953	Magnetically Controlled Lock	1954, Magnetic keycard lock
2,966,789	Magnetic Cylinder Locks	1958, Multi-bitted magnetic pin-tumbler with “trap” pins
3,056,276	Magnetically Operable Lock	1959, Magnetic keycard lock
3,234,767	Magnetically Operable Lock	1963, Magnetic padlock
3,271,983	Magnetic Locking Device	1964, Schlage CorKey (magnetic keycard)
3,416,336	Magnetic Locking Devices	1965, Magnetic pin-tumbler lock
3,444,711	Magnetically Operated Mechanism	1966, Magnetic keycard lock

3,566,637	Magnetic Lock	1966, Magnetic tumblers with movable plug
3,611,763	Magnetically Operated Mechanism	1966, Magnetic keycard lock
3,395,555	Magnetic Padlock	1967, Complex magnetic padlock with sliding plates
3,518,855	Magnetically Actuated Tumbler Lock	1967, Early MIWA EC. Purely magnetic pin-tumbler.
3,584,484	Magnetic Lock	1967, Magnetic pin-tumbler lock
3,494,157	Magnetic Lock	1968, Magnet & pin-tumbler hybrid
3,512,382	Hybrid Lock	1968, Miracle Magnetic; magnet & pin-tumbler hybrid
3,552,159	Magnetic Key and Lock	1969, Magnetic padlock; interesting design
3,602,020	Lock	1969, Magnetic lock using ball bearings
3,633,393	Lock Having Magnets Incorporated in Rotary Tumblers	1968, Rotating magnetic tumbler lock
3,656,328	Lock Assembly	1970, Insane magnet & pin-tumbler hybrid
3,657,907	Lock with Tumblers Controlled by a Magnetic Key	1970, Genii padlock; pivoting magnetic pins.
3,660,999	Magnetically Operated Locking Mechanism	1970, Magnetic pin-tumbler lock
3,665,740	Magnetic Pin Tumbler Lock	1970, Magnetic pin-tumbler, similar to MIWA EC
3,705,277	Operable Magnetic Locking Mechanism	1971, Flat keycard magnetic lock
3,742,739	Magnetic Lock	1972, Similar to Genii padlock
3,837,194	Pin-tumbler Lock	1973, Magnet & pin-tumbler hybrid lock
3,837,195	Magnetic Pin Lock	1973, Magnetic lock with round key
3,855,827	Magnetically Operated Locking Mechanisms	1973, Rotating magnetic lock
3,857,262	Magnetic Locking Mechanism	1973, Similar to Genii padlock
3,935,720	Rotatable Cylinder Lock	1974, Rotating magnetic lock with sidebar
3,942,345	Key Operated Magnetic Tumbler Lock	1974, Magnetic cam lock

3,967,479	Key Lock	1974, Magnetic padlock with round key
3,948,068	Magnetic Lock	1975, Magnetic padlock (key described in 3,955,388)
3,955,388	Combination Magnetic Key	1975, User-settable four number magnetic combo key
3,967,480	Rotary Release Magnetically Operated Lock	1975, Like the Genii but arranged in a circle. Cool! See other 1975 patents for similar locks and keys.
3,974,669	Lock	1975, Magnetic padlock (key described in 3,955,388)
4,026,134	Magnetic Lock	1975, Magnetic pin-tumbler lock
4,084,416	Magnetic-type Lock	1976, Rotating magnetic lock with sidebar and pins
4,127,017	Magnetic Key Operated Door Lock	1976, Rotating magnets, flat key
4,133,194	Method of Producing Magnetic Bodies and use thereof in Magnetic Locks	1976, Magnetic door lock. Winner of the longest, most novel name for a magnetic lock patent.
4,073,166	Magnetic Lock Pick	1977, Magnetic lock pick for Genii-style padlocks
4,228,667	Magnetically Acting Lock and Key	1978, Fancy magnetic lock
4,229,959	Method and Apparatus for Opening a Lock	1979, MIWA EC decoder and electromagnetic opener
4,253,320	Magnetic Lock	1979, Rotating magnetic lock with sidebars
4,307,589	Magnetic Lock	1979, Pivoting magnetic pins
4,397,166	Magnetic Lock	1979, Truth time: I have no idea how this works.
4,333,327	Magnetic Tumbler Lock	1980, Non-dimple MIWA 3800
4,398,404	Key Disengagement Preventive Device for Magnetic Tumbler Cylinder Locks	1980, MIWA 3800; dimple & magnetic hybrid lock
4,399,673	Lock Device	1981, Door hardware for MIWA EC & 3800 cylinders
4,425,771	Combined Magnetic and Non-Magnetic Locking Mechanism	1981, Magnetic & pin-tumbler magnetic lock
4,476,701	Magnetic Lock and Key	1982, Multi-bitted magnetic pin-tumbler lock
4,748,834	Key Made of Magnetic	1983, Magnetic keys

	Material	
4,516,416	Locking Device	1984, EVVA MCS with a million ball bearings
4,627,251	Combined Mechanical and Magnetic Locking System	1984, Similar to Miracle Magnetic
4,662,197	Magnetic Lock	1985, Zeiss Ikon System M (EVVA MCS equivalent)
4,777,815	Group Card-key Actuated Lock	1985, Rotating magnetic lock. Serious business.
4,815,304	Magnetic Lock	1987, Magnetic barrel lock
4,932,228	Locking Device	1988, Magnetic keycard hotel lock
5,010,750	Lock Cylinder w/ Electromagnetic Tumbler	1990, DOM electromagnetic lock. Similar to iLoq?
5,074,136	Magnetic Lock	1990, Magnetic pin-tumbler hybrid
5,267,459	Magnetic Key Operated Lock	1991, Magnetic hotel key lock
5,271,253	Electronic Combination Lock with Magnetic Anti-Attack Interlock	1992, Combination lock with magnetic locking bar
5,388,437	Magnetic Key Operated Lock	1993, Magnetic hotel key lock
5,605,065	Magnetic Controlled Locking Apparatus	1994, CISM lock; magnetic pin-tumbler/tubular design
5,622,067	User Codable Magnetic Lock	1995, Rotating magnetic lock
5,664,449	Magnetic Locks	1995, Chinese MagLok design
6,041,631	Locking Device	1998, Similar to EVVA 3KS with magnetic components
6,041,628	Magnetic Key Lock Assembly	1999, Triple-bitted magnetic pin-tumbler lock
6,367,297	Cylinder Lock	2000, Mottura dimple & magnetic hybrid.
6,481,254	Cylinder Lock	2001, Magnet & pin-tumbler hybrid lock
6,705,139	Magnetic Lock Mechanism	2001, Triple-bitted magnetic pin-tumbler lock
2007/0113 605 A1	Magnetically Controlled Locking Device	2003, Magnetic pin-tumbler/tubular, similar to CISM