

Title (en)
MECHATRONIC CYLINDER LOCK

Title (de)
MECHATRONISCHES ZYLINDERSCHLOSS

Title (fr)
SERRURE À CYLINDRE MÉCATRONIQUE

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Application
EP 17192284 A 20170921

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Abstract (en)

The invention relates to a mechatronic cylinder lock comprising a housing (1), in which is rotatably mounted a mechanical coding part (2) of the lock with a key channel for a profiled shank (40) of the key (4), whereby the mechanical coding part (2) of the lock is coupled to at least one rotatable element (5) for transmitting rotary motion of the key (4) to a lock detent (7) and the housing (1) accommodates at least one element for blocking the rotation of the mechanical coding part (2) of the lock, which is coupled to an electronically controlled unblocking means, which is provided with means for communication with an electronic control means in the key (4). In at least one rotatable element (5) is provided a radial recess (50), into which extends the working part of a contact element (90) of an electronically controlled blocking system (9) of the rotation of the mechanical coding part (2) of the lock, whereby the contact element (90) extends by the upper part (900) of its working part into the key channel and at the same time extends into the radial recess (22) in the end part of the mechanical coding part (2) of the lock and by its lower part abuts the upper surface (910) of a blocking tow bar (91), which is mounted spring-loaded and reciprocatingly slidably in the lower part (11) of the housing (1) of the lock and whose upper end in the blocking position extends into the radial recess (50) in the rotatable element (5), whereas in release position it is pushed out of the radial recess (50) by turning the rotatable element (5), whereby the blocking tow bar (91) is provided with a distance spacer pin (911), against which is in the blocking position arranged a flat spacer cam (930) with its wider dimension, which is displaceable between the blocking position and the release position, being mounted on a displaceable element of an electric drive (93), whereby the blocking tow bar (91) is also provided with a lateral arm (912) extending to the plane of the axis of rotation of the flat spacer cam (930), where it is bent towards the axis of the rotation of the flat spacer cam (930) and extends as far as to the lateral surface area (9301) of the flat spacer cam (930) in the narrower transverse dimension of the flat spacer cam (930).

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Citation (search report)

- [A] EP 1072741 A1 20010131 - TALLERES ESCORIAZA SA [ES]
- [A] FR 2849083 A1 20040625 - VACHETTE SA [FR]
- [A] EP 2765263 A1 20140813 - COGELEC [FR]

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