Title (en)

CYLINDER LOCK

Title (de

SCHLIESSZYLINDER

Title (fr)

CYLINDRE DE FERMETURE

Publication

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Application

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Abstract (en

[origin: US2007006623A1] The cylinder lock is comprised of a cylinder housing ( 10.1 ) and of a cylinder core ( 20.1 ), which is mounted therein and which accommodates spring-loaded plate-shaped tumblers ( 31.1 ) that can be longitudinal placed therein. The plate longitudinal edges ( 30.1, 30.2 ) of the tumblers are then guided on guiding surfaces ( 21.1, 22.1 ) inside the cylinder core ( 20.1 ). The tumblers ( 31.1 ) have control edges ( 41.1 ) placed at defined heights ( 45 ). The aim of the invention is to render the cylinder lock not only burglar-proof, but to also ensure a reliable protection against the loss of tumblers. To this end, the invention firstly provides that a cam ( 36.1 ) having a least one pair of flanks ( 37.1, 38.1 ) is placed either on one plate longitudinal edge ( 30.1 ) of the tumblers ( 31.1 ) or on the guiding surface in the cylinder core facing said plate longitudinal edge. The invention also provides that a cutout ( 26.1 ) is made either on the cylinder core ( 20.1 ) next to its cavity ( 23.1 ) for tumbler ( 31.1 ) or the cutout is made on the tumbler itself on its plate longitudinal edge facing the cam. Said cutout has at least one pair of mating flanks ( 27.1, 28.1 ) and is opposite the cam-side flanks ( 37.1, 38.1 ). The flanks and mating flanks ( 27.1, 37.1 ) function as a stop and counter sop for concealing the actual position of the control edges. At the same time, at least one flank and mating flank ( 27.1, 37.1 ) provide for a protection against the loss of tumblers, which provides for a holding together of the modular unit, which consists of the spring-loaded ( 13.1 ) tumblers ( 31.1 ) and of the cylinder core ( 20.1 ), even when the modular unit is located outside of the cylinder housing ( 10.1 ).

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