

Title (en)

A CYLINDER LOCK WITH ENHANCED SECURITY AGAINST BREAK-IN ATTEMPTS

Title (de)

ZYLINDERSCHLOSS MIT ERHÖHTER SICHERHEIT GEGEN EINBRUCHSVERSUCHE

Title (fr)

SERRURE À BARILLET À SÉCURITÉ RENFORCÉE CONTRE LES TENTATIVES D'EFFRACTION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2019231411A1] The present invention relates to a cylinder lock (10) comprising: a cylinder plug (30) having a keyway (35) adapted to receive a key; a longitudinally extending first cylinder half (23) and a second cylinder half (24); a rotatable cam (21) co-axial with and connected to the cylinder plug (30) for rotation therewith, the rotatable cam (21) being disposed externally of and between the first second cylinder halves (23, 24); a mechanically weakened cylinder notch (29) provided through at least part of the first cylinder half (23) for forming a breakable tip portion (28); a mechanically weakened plug notch (36) provided through at least part of the cylinder plug (30) for forming a breakable plug portion; a plurality of mutually aligned bores extending at right-angles to the cylinder plug axis and in which housing pins (52) which are substantially of equal length and plug pins (53) which are of different lengths are biased in the direction of the keyway (35) under spring force by a plurality of springs (51). said cylinder lock (10) further comprises at least one retaining pin (32), pre-stressed and displaceable under a spring force, provided at the cylinder plug (30) and depressed by a retaining member (31), said retaining pin (32) adapted to match at least partly with a corresponding retaining recess (27) formed at the first cylinder half (23) such that when the mechanically weakened cylinder notch (29) and plug notch (36) breaks away, said retaining member (31) slides out of the first cylinder half (23) and said retaining pin (32) maintains rest of the cylinder plug (30) in the first cylinder half (23) by matching with the retaining recess (27).

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