

Title (en)

Keyless cylinder combination lock.

Title (de)

Schlüsselloses Kombinationszylinderschloss.

Title (fr)

Serrure à cylindre, à combinaison sans clé.

Publication

**EP 0088012 A1 19830907 (FR)**

Application

**EP 83400367 A 19830222**

Priority

FR 8203335 A 19820301

Abstract (en)

1. Cylinder lock comprising a stator (10) which surrounds a rotor (20), the latter having to be set in rotation with respect to the stator in order to allow the opening of the lock, a plurality of coaxial coding discs (40) each comprising a notch (41) on their periphery as well as members (49) adapted to bring about the rotation of each of the discs when one of the coding discs which is immediately adjacent thereto is in turn set in rotation over a given angle, a rotary member for the decoding of the discs (70) cooperating with one of the discs in order to bring about the rotation of the latter and a locking member (30) located between the rotor (20) and the stator (10) and adapted to penetrate the notches (41) of the coding discs when the latter are in alignment, characterised by the fact that : - the said locking member (30) is able to be moved between a locking position in which it prevents the rotation of the rotor (20) with respect to the stator (10) and a neutral position in which it penetrates the notches (41) in the coding discs and allows the rotation of the rotor and by the fact that - the rotary member (70) is able to move axially with respect to the position which it occupies at the time of decoding of the discs in order to ensure the rotation of the rotor (20) and the opening of the lock when the notches (41) provided on each of the discs are in alignment.

Abstract (fr)

La serrure comprend un stator (10), un rotor (20) et un mentonnet (30) faisant interférence entre le rotor et le stator. La serrure comprend en outre un organe rotatif de décodage (70) qui assure la rotation et le décodage d'un empilement de disques (40) équipés d'un pion de codage (49) et d'une encoche (41). Après alignement des disques de codage (40), l'organe rotatif de décodage (70) est déplacé axialement pour entraîner le rotor (20) en rotation par passage du mentonnet (30) dans lesdites encoches (41).

IPC 1-7

**E05B 37/08**

IPC 8 full level

**E05B 37/08** (2006.01)

CPC (source: EP)

**E05B 37/08** (2013.01)

Citation (search report)

- [A] US 4170886 A 19791016 - COWEN LLOYD S [US]
- [A] US 1816575 A 19310728 - FULL GEORGE D
- [AD] DE 28656 C

Cited by

EP0192544A1; FR2577268A1; US4726204A; WO9118166A1

Designated contracting state (EPC)

DE GB IT NL

DOCDB simple family (publication)

**EP 0088012 A1 19830907; EP 0088012 B1 19861112**; DE 3367645 D1 19870102; ES 520162 A0 19831201; ES 8401174 A1 19831201; FR 2522352 A1 19830902; FR 2522352 B1 19851206

DOCDB simple family (application)

**EP 83400367 A 19830222**; DE 3367645 T 19830222; ES 520162 A 19830228; FR 8203335 A 19820301