

Title (en)
CYLINDER LOCK

Title (de)
ZYLINDERSCHLOSS

Title (fr)
SERRURE À BARILLET

Publication
EP 3578742 A1 20191211 (EN)

Application
EP 18175813 A 20180604

Priority
EP 18175813 A 20180604

Abstract (en)
A cylinder lock (10) intended to be operated by a key has a rotor (12) mounted rotatably in a housing (14). A plurality of spring-loaded tumblers (18) are arranged moveably in the rotor (12) and in the housing (14) along a locking direction (L) between a locked position in which they prevent a rotation of the rotor (12) and an unlocked position in which they allow the rotation of the rotor (12). Each tumbler (18) is pretensioned towards its locked position by a spring element (22) arranged alongside the tumbler (18) with regard to the locking direction (L), each spring element (22) being arranged in a receptacle (24) formed in the rotor (12). A sidebar (34) is provided on the rotor (12), the sidebar (34) being arranged for motion between a locked position in which it prevents the rotation of the rotor (12) and an unlocked position in which it allows the rotation of the rotor (12), wherein the sidebar (34) is arranged along the locking direction (L) of the tumblers (18) beyond a radially inner end (30) of all receptacles (24) of the spring elements (22).

IPC 8 full level
E05B 29/00 (2006.01)

CPC (source: EP)
E05B 29/0066 (2013.01)

Citation (applicant)
• US 2008178647 A1 20080731 - CALOR HERVE [FR]
• US 2017234035 A1 20170817 - MCLENNAN SPENCER PURVES [CA]

Citation (search report)
• [A] WO 2015189367 A1 20151217 - ABUS AUGUST BREMICKER SÖHNE KG [DE]
• [A] US 3475933 A 19691104 - KOBREHEL PETER M
• [A] EP 2267251 A2 20101229 - BREMICKER SOEHNE KG A [DE]
• [A] US 4085601 A 19780425 - SAUDER KENNETH D

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3578742 A1 20191211; EP 3578742 B1 20210303; WO 2019234027 A1 20191212

DOCDB simple family (application)
EP 18175813 A 20180604; EP 2019064500 W 20190604