

Title (en)

DEVICE FOR INDICATING THE LOCKED STATE OF A LOCK

Title (de)

VORRICHTUNG ZUR ANZEIGE DES SCHLIESSZUSTANDES EINES SCHLOSSES

Title (fr)

DISPOSITIF INDIQUANT L'ETAT DE FERMETURE D'UNE SERRURE

Publication

**EP 1395725 B1 20051019 (DE)**

Application

**EP 02750988 A 20020529**

Priority

- DE 10126526 A 20010530
- EP 0205911 W 20020529

Abstract (en)

[origin: WO02097223A1] The invention relates to a device (1) for indicating the locked state of a key-operated lock. Said device comprises a housing (4), which is mounted on the key and contains a rotational direction sensor (8) with a hollow body (24) that is filled with a first electrically conductive liquid (28) and has electrically conductive contacts (A, B, C, D, E, F, G, H), for generating electrical contact sequences that are dependent on the locking direction, in addition to an electronic evaluation unit (6), which determines the locked state of the lock from the contact sequences. The device (1) is characterised in that the hollow body (24) is essentially filled completely with the first electrically conductive liquid (28) and with a second electrically non-conductive liquid (30), which repels the first liquid (28).

IPC 1-7

**E05B 19/22**; **H01H 29/20**

IPC 8 full level

**E05B 19/22** (2006.01); **H01H 29/20** (2006.01)

CPC (source: EP US)

**E05B 19/22** (2013.01 - EP US); **H01H 29/20** (2013.01 - EP US); **Y10S 70/59** (2013.01 - EP US); **Y10T 70/7876** (2015.04 - EP US); **Y10T 70/8027** (2015.04 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 02097223 A1 20021205**; AT E307257 T1 20051115; CN 1289776 C 20061213; CN 1524153 A 20040825; DE 10126526 C1 20030130; DE 50204610 D1 20060302; EP 1395725 A1 20040310; EP 1395725 B1 20051019; HK 1068667 A1 20050429; US 2004103702 A1 20040603; US 6959568 B2 20051101

DOCDB simple family (application)

**EP 0205911 W 20020529**; AT 02750988 T 20020529; CN 02811038 A 20020529; DE 10126526 A 20010530; DE 50204610 T 20020529; EP 02750988 A 20020529; HK 05100937 A 20050204; US 71877803 A 20031121