

Title (en)

COMBINED MECHANICAL AND ELECTRONIC KEY, IN PARTICULAR FOR THE LOCKS OF MOTOR VEHICLES

Title (de)

KOMBINierter MECHANISCHER UND ELEKTRONISCHER SCHLÜSSEL, INSBESONDERE FÜR AN FAHRZEUGEN BEFINDLICHE SCHLÖSSER

Title (fr)

CLE MECANIQUE ET ELECTRONIQUE COMBINEE, NOTAMMENT POUR DES SERRURES DE VEHICULES AUTOMOBILES

Publication

EP 1242704 A1 20020925 (DE)

Application

EP 00993632 A 20001122

Priority

- DE 19962975 A 19991224
- EP 0011619 W 20001122

Abstract (en)

[origin: WO0148339A1] The invention relates to a combined mechanical and electronic key comprising a key housing for electronic components and an L-shaped flat key (30). Said flat key consists of a bearing limb (31) which enables the key to pivot into a storage position and a shank (32) which mechanically operates the lock. The shank (32) of the flat key (30) can be displaced between an inoperative position, retracted into the key housing and an operative position, in which it projects out of the housing. A push-button preferably also acts as the pivoting axis for the flat key (30). The push-button and the housing have profiled sections and the bearing limb has co-operating profiled sections (37, 38, 39), to subject the flat key (30) to a force in the operative position and to lock the key in one of its positions. The invention aims to produce a simple, cost-effective key. To this end, the flat key is configured as a planar plate (34) with an L-shaped outline, the shank (32) sharing the same plane as the bearing limb. The bearing limb (31) has an opening (35) in the plate for receiving, in a rotationally fixed manner, an insert (36) that has the co-operating profiled section (37 to 39).

IPC 1-7

E05B 19/04; **E05B 49/00**

IPC 8 full level

E05B 19/04 (2006.01); **E05B 49/00** (2006.01); **G07C 9/00** (2006.01)

CPC (source: EP KR US)

E05B 19/04 (2013.01 - KR); **E05B 19/043** (2013.01 - EP US); **G07C 9/00944** (2013.01 - EP US); **G07C 2009/00952** (2013.01 - EP US); **Y10T 70/7079** (2015.04 - EP US); **Y10T 70/7876** (2015.04 - EP US); **Y10T 70/8676** (2015.04 - EP US)

Citation (search report)

See references of WO 0148339A1

Cited by

DE102007058481A1; US7726161B2; DE102007017208A1; DE102007007752A1

Designated contracting state (EPC)

DE ES FR GB IT NL

DOCDB simple family (publication)

WO 0148339 A1 20010705; AU 2836901 A 20010709; DE 19962975 A1 20010705; DE 50010314 D1 20050616; EP 1242704 A1 20020925; EP 1242704 B1 20050511; KR 100709826 B1 20070423; KR 20020062991 A 20020731; US 6705141 B1 20040316

DOCDB simple family (application)

EP 0011619 W 20001122; AU 2836901 A 20001122; DE 19962975 A 19991224; DE 50010314 T 20001122; EP 00993632 A 20001122; KR 20027008201 A 20020624; US 16836202 A 20020621