Title (en)
Electronic flat key

Title (de)
Elektronischer Flachschlüssel

Title (fr)
Clé plate électronique

Publication
EP 1096083 A3 20030115 (DE)

Application
EP 00402949 A 20001024

Priority
DE 19952247 A 19991029

Abstract (en)
[origin: DE19952247C1] The flat key has a grip part (2) provided by a housing (4) with two housing half shells (5,6) of metal or a metalized plastics, enclosing an electronic circuit (12) for remote operation of a lock or a central locking system and providing a battery compartment (16), receiving the supply source battery (17) for the electronic circuit. The key shaft (3) is pivoted relative to the grip part between a stowed position in which it lies in a recess provided along the side of the grip part and a projecting operating position. A non-conductive frame element (7) enclosing the electronic circuit fits between the housing half shells, with a part which projects up to the outer surface of the housing.

IPC 1-7
E05B 19/04; E05B 49/00; G07C 9/00; A45C 11/32

IPC 8 full level
A45C 11/32 (2006.01); **E05B 19/04** (2006.01); **E05B 19/08** (2006.01); **G07C 9/00** (2006.01)

CPC (source: EP US)
A45C 11/324 (2013.01 - EP US); **E05B 19/043** (2013.01 - EP US); **G07C 9/00944** (2013.01 - EP US); G07C 2009/00587 (2013.01 - EP US); G07C 2009/00952 (2013.01 - EP US); Y10T 70/7808 (2015.04 - EP US); Y10T 70/7825 (2015.04 - EP US); Y10T 70/7876 (2015.04 - EP US)

Citation (search report)
• [DA] DE 3902537 A1 19900809 - DAIMLER BENZ AG [DE], et al
• [A] DE 4226579 A1 19940217 - DAIMLER BENZ AG [DE], et al

Cited by
CN104929427A; DE10206534A1; CN103491206A; EP1283315A1; FR2828515A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
DE 19952247 C1 20010405; EP 1096083 A2 20010502; EP 1096083 A3 20030115; US 6499326 B1 20021231

DOCDB simple family (application)
DE 19952247 A 19991029; EP 00402949 A 20001024; US 69736000 A 20001027