

Title (en)
CYLINDER LOCK

Publication
EP 0369107 A3 19910116 (DE)

Application
EP 89111569 A 19890624

Priority
DE 3838481 A 19881112

Abstract (en)
[origin: US4961328A] The invention relates to a cylinder lock with a cylinder housing (1) and, rotatably mounted therein, a cylinder plug (2) comprising a key passage extending in its axial direction, with a lock bit (5) coupled to the cylinder plug and rotatably mounted in the cylinder housing (1), there being provided in the cylinder housing and in the cylinder plug a plurality of mutually aligned bores which extend into the passage and in which there are, by a spring force in the direction of the passage, plug pins which are of different lengths and housing pins which are preferably of the same length, there being formed between the cylinder housing and the cylinder plug a first separating joint traversed by the housing pins when the key is not inserted into the lock, the ends of the plug pins so co-operating with the locking notches of the key that when the key is inserted the pins are displaced in their axial direction into a position in which the bearing ends of all plug and housing pins are located in the first separating joint and so allow a rotation of the cylinder plug and of the lock bit. The invention envisages disposing in the cylinder housing (1) a displaceable barrier element (9) which locks the lock bit (5) as soon as the cylinder plug (2) is removed from the cylinder housing (1). This ensures that even if the cylinder plug is removed from the cylinder housing by force, which results in a shearing of the plug pins, the lock bit cannot be rotated.

IPC 1-7
E05B 27/00; **E05B 17/20**

IPC 8 full level
E05B 9/10 (2006.01); **E05B 13/06** (2006.01); **E05B 17/20** (2006.01); **E05B 27/00** (2006.01)

CPC (source: EP US)
E05B 9/10 (2013.01 - EP US); **E05B 17/2092** (2013.01 - EP US); **E05B 17/0062** (2013.01 - EP US); **E05B 27/00** (2013.01 - EP US); **Y10T 70/20** (2015.04 - EP US); **Y10T 70/7915** (2015.04 - EP US); **Y10T 70/7944** (2015.04 - EP US)

Citation (search report)

- [X] FR 2590533 A1 19870529 - TURATTI MARIO [IT]
- [X] DE 2748408 A1 19790503 - DAIMLER BENZ AG
- [A] DE 2644312 B1 19780323 - NEIMAN GMBH & CO KG
- [A] FR 1410484 A 19650910 - YALE & TOWNE G M B H

Cited by
EP0590726A1; FR2716484A1; BE1008673A5; ES2136476A1

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI NL SE

DOCDB simple family (publication)
US 4961328 A 19901009; DE 3838481 A1 19900517; EP 0369107 A2 19900523; EP 0369107 A3 19910116; JP H02221573 A 19900904

DOCDB simple family (application)
US 43523389 A 19891113; DE 3838481 A 19881112; EP 89111569 A 19890624; JP 29252189 A 19891113