

Title (en)

Lock provided with a gear device for actuating at least one bolt

Title (de)

Schloss mit einem Getriebe für die Betätigung zumindest eines Riegels

Title (fr)

Serrure avec un mécanisme d'engrenage pour l'actionnement d'au moins un pêne

Publication

**EP 0906996 A3 20010613 (EN)**

Application

**EP 98118334 A 19980928**

Priority

IT BO970597 A 19971003

Abstract (en)

[origin: EP0906996A2] A lock provided with a gear device for actuating at least one bolt (8) for closing a door, window and the like, comprising a gear (31) which is operatively associated with the bolt (8) and a pinion (23) which meshes with the gear (31), the pinion (23) having a slot which lies radially between two teeth (25) and is formed by two side walls (27,28) between which the bit (16) of a cylinder (14) is arranged with play, the cylinder (14) being inserted in the lock through the pinion (23), the bit (16) forming, together with the side walls (27,28) of the slot, two interspaces which are arranged upstream and downstream of the bit (16) with respect to the direction of rotation of the bit (16), the gear (31) having at least one pair of adjacent teeth (32,33) which form a tooth space (34) which can be engaged by the bit (16) at each turn of the pinion (23) and are shaped so that the tooth (32) of the pair that engages the interspace (29) arranged downstream of the bit (16) produces, during the rotation angle in which the driven tooth (32) remains engaged in the interspace (29), the approach and abutment of the bit (16) against the side wall (28) arranged downstream of it. <IMAGE>

IPC 1-7

**E05B 17/04**; E05B 53/00; E05B 59/00

IPC 8 full level

**E05B 17/04** (2006.01); **E05C 9/04** (2006.01); **E05B 59/00** (2006.01)

CPC (source: EP)

**E05B 17/042** (2013.01); **E05C 9/041** (2013.01); **E05C 9/047** (2013.01); **E05B 59/00** (2013.01)

Citation (search report)

- [X] FR 2690944 A1 19931112 - BROGGER SA [FR]
- [X] FR 2707322 A1 19950113 - LAPERCHÉ SA [FR]
- [DX] EP 0270425 A2 19880608 - STREMLER [FR]

Cited by

FR2822491A1; DE202007006897U1; FR3015998A1; EP2813647A1; ES2319354A1; EP1348825A1; EP3480395A1; RU2741587C1; AU2018360239B2; US11408205B2; WO2019086240A1; WO2014199012A1

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)

**EP 0906996 A2 19990407**; **EP 0906996 A3 20010613**; IT 1295212 B1 19990504; IT BO970597 A0 19971003; IT BO970597 A1 19990403

DOCDB simple family (application)

**EP 98118334 A 19980928**; IT BO970597 A 19971003