

Title (en)
DOOR LOCK DRIVING DEVICE.

Title (de)
TÜRSCHLIESSANTRIEB.

Title (fr)
MECANISME D'ENTRAINEMENT D'UNE SERRURE DE PORTE.

Publication
EP 0684356 A1 19951129 (EN)

Application
EP 95902294 A 19941201

Priority
• JP 9402030 W 19941201
• JP 31045993 A 19931210
• JP 22531994 A 19940920

Abstract (en)
A cam 7, which is rotated by a motor 3, drives an actuating lever 8 through a torque receiving portions 8a or 8b to move the actuating lever 8 to the door-unlocking position or to the door-locking position and stops when it abuts a stopper walls 8d or 8e which are formed on the actuating lever 8. The intermediate reduction gear 5, which transmits rotating torque through a spring 6, rotates after the cam 7 stops and gradually stops while bending the spring 6. When the motor 3 is deenergized in this state, the intermediate reduction gear 5 is driven in the opposite direction due to elastic energy accumulated in the spring 6. Thus, the cam leaves the stopper walls 8d or 8e of the actuating lever 8 before it stops.

IPC 1-7
E05B 65/20

IPC 8 full level
E05B 65/12 (2006.01); **E05B 15/00** (2006.01); **E05B 65/20** (2006.01)

CPC (source: EP)
E05B 81/25 (2013.01); **E05B 15/0053** (2013.01); **E05B 83/36** (2013.01)

Cited by
US10030420B2; US5673578A; EP1626144A3; DE19913666B4; FR2925564A1; DE19747211C2; ES2146183A1; DE202004015779U1;
US2016251877A1; US10563434B2; US7263909B2; US6889571B2; WO2006039879A1; WO02095171A1; WO2009083379A1

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WO 9516093 A1 19950615; DE 69424654 D1 20000629; DE 69424654 T2 20010125; EP 0684356 A1 19951129; EP 0684356 A4 19961218;
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