

Title (en)  
LOCKING DRIVE

Title (de)  
VERRIEGELUNGSANTRIEB

Title (fr)  
ENTRAÎNEMENT DE VERROUILLAGE

Publication  
**EP 3575517 B1 20201028 (DE)**

Application  
**EP 19173745 A 20190510**

Priority  
DE 102018208411 A 20180528

Abstract (en)  
[origin: CN110541615A] The invention relates to a locking driving device for locking/unlocking a window, a door, or the like. The locking driving device comprises a mechanical driving unit; a locking energy storage device; an unlocking energy storage device; and a control device. The control device can operate the mechanical driving unit and triggers a corresponding pre-loaded energy storage device to remove the load so that when the mechanical driving unit stops, the energy stored in the preloaded locking energy storage device is used to lock a wing. At first, the load on the preloaded locking energy storage device is removed; after successful locking, the unlock energy storage device is preloaded through the mechanical driving unit; when the mechanical driving unit stops, the energy stored in the preloaded unlocking energy storage device is used to unlock a wing; at first, the load on the preloaded unlocking energy storage device is removed, and after successful unlocking, the locking energy storage device is preloaded through the mechanical driving unit.

IPC 8 full level  
**E05B 15/04** (2006.01); **E05B 17/00** (2006.01); **E05B 47/02** (2006.01)

CPC (source: CN EP KR)  
**E05B 15/00** (2013.01 - CN); **E05B 15/04** (2013.01 - EP KR); **E05B 17/0045** (2013.01 - EP KR); **E05B 47/00** (2013.01 - CN); **E05B 47/0001** (2013.01 - KR); **E05B 47/02** (2013.01 - EP); **E05B 2015/0406** (2013.01 - KR); **E05B 2015/0448** (2013.01 - EP); **E05B 2047/0016** (2013.01 - EP KR); **E05B 2047/0065** (2013.01 - EP); **E05Y 2800/422** (2013.01 - KR)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3575517 A1 20191204**; **EP 3575517 B1 20201028**; CN 110541615 A 20191206; CN 110541615 B 20210402; DE 102018208411 A1 20191128; DE 102018208411 B4 20200820; ES 2841913 T3 20210712; KR 102177059 B1 20201110; KR 20190135425 A 20191206; PL 3575517 T3 20210517; PT 3575517 T 20201130; TW 202003986 A 20200116; TW I698569 B 20200711

DOCDB simple family (application)  
**EP 19173745 A 20190510**; CN 201910448322 A 20190528; DE 102018208411 A 20180528; ES 19173745 T 20190510; KR 20190061890 A 20190527; PL 19173745 T 20190510; PT 19173745 T 20190510; TW 108118268 A 20190527