

Title (en)  
Espagnolette gearing of a window or door.

Title (de)  
Stulpgetriebe eines Fensters oder einer Tür

Title (fr)  
Engrenage de crémonne d'une fenêtre ou porte.

Publication  
**EP 0641910 B1 19971210 (DE)**

Application  
**EP 94101340 A 19940129**

Priority  
DE 4308810 A 19930319

Abstract (en)  
[origin: US5437485A] A locking mechanism for driving a lock bolt comprises a housing. A pinion has an outer circumference and is rotatably mounted in the housing. The pinion has a plurality of teeth and tooth gaps are disposed between adjacent teeth. A predetermined number of the tooth gaps have an abutment that extends outwardly substantially to the outer circumference of the pinion. A toothed rod is coupled to the lock bolt. The toothed rod is engaged by the pinion. A spring loaded detent device arrest the rotational movement of the detent in a switching position of the lock bolt.

IPC 1-7  
**E05C 9/02**; E05C 9/12

IPC 8 full level  
**E05C 9/02** (2006.01); **E05B 15/00** (2006.01); **E05C 9/12** (2006.01); **E05B 15/04** (2006.01); **E05B 63/00** (2006.01)

CPC (source: EP KR US)  
**E05B 15/0053** (2013.01 - EP US); **E05C 9/12** (2013.01 - KR); **E05B 63/0021** (2013.01 - EP US); **E05B 2015/0448** (2013.01 - EP US); **E05C 9/021** (2013.01 - EP US); **E05D 15/524** (2013.01 - EP US); **E05Y 2900/148** (2013.01 - EP US); **Y10T 292/1018** (2015.04 - EP US)

Cited by  
DE102012011942A1; CN110541634A; EP1452676A1; WO2017023279A1

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

DOCDB simple family (publication)  
**US 5437485 A 19950801**; AT E161068 T1 19971215; CA 2119400 A1 19940920; CA 2119400 C 20041214; CZ 288087 B6 20010411; CZ 59094 A3 19941019; DE 4308810 A1 19940922; DE 59404769 D1 19980122; DK 0641910 T3 19980824; EP 0641910 A2 19950308; EP 0641910 A3 19950524; EP 0641910 B1 19971210; ES 2110132 T3 19980201; FI 109142 B 20020531; FI 941295 A0 19940318; FI 941295 A 19940920; HU 213137 B 19970228; HU 9400620 D0 19940530; HU T70912 A 19951128; IL 109015 A0 19940624; IL 109015 A 19960912; JP 3504321 B2 20040308; JP H0771154 A 19950314; KR 0185243 B1 19990401; KR 940021879 A 19941019; NO 302668 B1 19980406; NO 940990 D0 19940318; NO 940990 L 19940920; PL 172649 B1 19971031; SK 284022 B6 20040803; SK 32794 A3 19941005

DOCDB simple family (application)  
**US 21494094 A 19940317**; AT 94101340 T 19940129; CA 2119400 A 19940318; CZ 59094 A 19940315; DE 4308810 A 19930319; DE 59404769 T 19940129; DK 94101340 T 19940129; EP 94101340 A 19940129; ES 94101340 T 19940129; FI 941295 A 19940318; HU 9400620 A 19940302; IL 10901594 A 19940317; JP 4711694 A 19940317; KR 19940005424 A 19940318; NO 940990 A 19940318; PL 30265794 A 19940317; SK 32794 A 19940318