

Title (en)  
Auxiliary lock for a lock

Title (de)  
Nebenschloss für ein Schloss

Title (fr)  
Serrure auxiliaire pour une serrure

Publication  
**EP 2543804 B1 20190807 (DE)**

Application  
**EP 12173016 A 20120621**

Priority  
DE 202011102905 U 20110706

Abstract (en)  
[origin: EP2543804A2] The automatic lock comprises a primary lock (10) and a secondary lock (16). The secondary lock: comprises a locking element (20, 22') that is adjustable between a locking position and an unlocking position, and a lock latch that is slidably mounted between an extended position and a retracted position; and is automatically adjusted into the locking position during the introduction of the lock in the closed position. The lock latch and the locking element are associated with a respective frame side recess, in which the locking element located in the locking position. The automatic lock comprises a primary lock (10) and a secondary lock (16). The secondary lock: comprises a locking element (20, 22') that is adjustable between a locking position and an unlocking position, and a lock latch that is slidably mounted between an extended position and a retracted position; and is automatically adjusted into the locking position during the introduction of the lock in the closed position. The lock latch and the locking element are associated with a respective frame side recess in which the locking element located in the locking position and the lock latch located in the extended position engage in the unlocking position of the lock. The locking element: located in the unlocking position is biased in the direction of the locking position by a gravitational force acting on the locking element and/or on an element coupled with the locking element or by a spring force acting on the locking element and/or an element coupled with the locking element; comprises a swivel hook, whose center of gravity is arranged outside the pivot axis of the hook so that the swivel hook located in the unlocking position is biased by the gravitational force acting in the direction of the locking position; is operably connected with a transmission element; located in the locking position is secured against back pressure in the direction of the unlocking position; and is coupled with the transmission element via a pin-shaped coupling element. The lock latch: located in the retracted position of the secondary lock is applied with the spring force acting in the direction of the extended position of the lock; and located in the extended position of the secondary lock is retractable on the transmission element of the secondary lock in the retracted position. The transmission element or an element coupled with the transmission element is biased in the direction of the locking position by the action of gravitational force or spring force. The coupling element is slidably stored on the locking element, on the transmission element and on a housing part fixed on the secondary lock. The housing part forms an abutment for the coupling element in the locking position of the locking element, where the back pressure of the locking element is blocked in the direction of the unlocking position. Independent claims are included for: (1) a primary lock for an automatic lock; and (2) a door.

IPC 8 full level  
**E05C 9/18** (2006.01); **E05B 17/00** (2006.01); **E05B 63/20** (2006.01); **E05C 9/02** (2006.01)

CPC (source: EP)  
**E05B 17/0025** (2013.01); **E05B 63/20** (2013.01); **E05C 9/026** (2013.01); **E05C 9/1841** (2013.01); **E05C 9/1875** (2013.01)

Citation (examination)  
EP 0610542 A2 19940817 - FLIETHER KARL GMBH & CO [DE]

Cited by  
CN111183265A; EP3832055A1; EP4166739A1; DE102021211106A1; EP3619382B1

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)  
**DE 202011102905 U1 20121011**; EP 2543804 A2 20130109; EP 2543804 A3 20170705; EP 2543804 B1 20190807; PL 2543804 T3 20200228

DOCDB simple family (application)  
**DE 202011102905 U 20110706**; EP 12173016 A 20120621; PL 12173016 T 20120621