

Title (en)  
SAFETY LOCK

Title (de)  
SICHERHEITSSCHLOSS

Title (fr)  
SERRURE DE SÉCURITÉ

Publication  
**EP 4105411 A1 20221221 (EN)**

Application  
**EP 21189527 A 20210803**

Priority  
TW 110121781 A 20210615

Abstract (en)  
A lock includes two lock cylinders with a cam located between the two lock cylinders. Each lock cylinder includes a rotary part which has a transmission slot in which a driver is located. Each driver includes a reception portion and a ridge. The two respective drivers are located in a passage of the cam and resiliently biased toward other by two resilient members of the two lock cylinders. The cam includes a path, and the ridge is movable axially in the path. The ridge drives and rotates the cam when the driver rotates. The path includes a restriction unit. When one of the two drivers is damaged and is not biased by the resilient member, another one of the two drivers is biased and moved by the resilient member to engage the restriction unit with the reception portion of the driver, so that the lock functions normally.

IPC 8 full level  
**E05B 9/10** (2006.01); **E05B 17/20** (2006.01)

CPC (source: EP GB)  
**E05B 9/042** (2013.01 - GB); **E05B 9/10** (2013.01 - EP GB); **E05B 17/2084** (2013.01 - GB); **E05B 17/2092** (2013.01 - EP GB); **E05B 27/0071** (2013.01 - GB)

Citation (applicant)  
CN 105649408 A 20160608 - AVOCET HARDWARE LTD

Citation (search report)  
• [XAI] TW 1725809 B 20210421 - FEDERAL LOCK CO LTD [TW]  
• [A] CN 103615154 A 20140305 - WENZHOU JINFU LOCKS CO LTD  
• [A] EP 2963209 B1 20200219 - XU JUXIANG [CN], et al

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

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4105411 A1 20221221**; **EP 4105411 B1 20240228**; GB 202111105 D0 20210915; GB 2607974 A 20221221; GB 2607974 B 20230607; TW 202300768 A 20230101; TW 1773383 B 20220801

DOCDB simple family (application)  
**EP 21189527 A 20210803**; GB 202111105 A 20210802; TW 110121781 A 20210615