

Title (en)  
SAFETY HINGE FOR A VERTICAL DOOR

Title (de)  
SICHERHEITSSCHARNIER FÜR EINE VERTIKALE TÜR

Title (fr)  
CHARNIÈRE DE SÉCURITÉ POUR UNE PORTE VERTICALE

Publication  
**EP 4261375 A1 20231018 (EN)**

Application  
**EP 22167750 A 20220412**

Priority  
EP 22167750 A 20220412

Abstract (en)  
Safety hinge for a vertical door, comprising a cam (1) provided with a first vertical cam profile (c1) and a second vertical cam profile (c2), a cam follower (2) provided with a first vertical cam follower profile (f1) configured to work in conjunction with the first vertical cam profile (c1), and a second vertical cam follower profile (f2) configured to work in conjunction with the second vertical cam profile (c2), the safety hinge being configured to move from a first resting position into a second resting position by moving the cam (1) such that the first vertical cam profile (c1) drives the first vertical cam follower profile (f1), and to move from the second resting position back into the first resting position by moving the cam (1) such that the second vertical cam profile (c2) drives the second vertical cam follower profile (f2).

IPC 8 full level  
**E05D 5/02** (2006.01); **E05D 7/081** (2006.01); **E05D 11/10** (2006.01)

CPC (source: EP)  
**E05D 5/0246** (2013.01); **E05D 7/081** (2013.01); **E05D 11/1078** (2013.01); **E05D 2011/1035** (2013.01); **E05Y 2201/216** (2013.01); **E05Y 2201/24** (2013.01); **E05Y 2201/412** (2013.01); **E05Y 2201/424** (2013.01); **E05Y 2201/638** (2013.01); **E05Y 2800/748** (2013.01); **E05Y 2900/31** (2013.01)

Citation (applicant)  
EP 21197322 A 20210917

Citation (search report)  
• [X] KR 200409955 Y1 20060303  
• [I] EP 2789944 A2 20141015 - SAMSUNG ELECTRONICS CO LTD [KR]  
• [I] CN 109838163 A 20190604 - CAI YU LIN  
• [I] US 2014259532 A1 20140918 - MILLARD MATTHEW DAVID [US], et al  
• [I] WO 2010007599 A1 20100121 - LIEXCO SA [LU], et al  
• [I] WO 2012029720 A1 20120308 - NIFCO INC [JP], 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 4261375 A1 20231018**

DOCDB simple family (application)  
**EP 22167750 A 20220412**