

Title (en)  
DOOR CLOSER AND REFRIGERATOR COMPRISING SAME

Title (de)  
TÜRSCHLIESSER UND KÜHLSCHRANK DAMIT

Title (fr)  
FERME-PORTE ET RÉFRIGÉRATEUR LE COMPRENANT

Publication  
**EP 3786400 A4 20210519 (EN)**

Application  
**EP 19791803 A 20190422**

Priority  
• CN 201810374364 A 20180424  
• CN 2019083724 W 20190422

Abstract (en)  
[origin: EP3786400A1] A door closer according to the present invention comprises a hinge plate, a hinge shaft disposed on the hinge plate, and an adapter disposed rotatably around the hinge shaft. The door closer further comprises a cam disposed on the hinge shaft, a peripheral side of the cam retracts inward the cam to form a first recessed region, an elastic mechanism is provided in the adapter, and the elastic mechanism has an abutting end for elastically abutting against the periphery of the cam; during the turning of the adapter, the abutting end moves relative to the periphery of the cam, and when the adapter turns to the side of the first recessed region of the cam, the abutting end enters the first recessed region to lock a positional relationship between the adapter and the hinge plate.

IPC 8 full level  
**E05D 3/02** (2006.01); **E05D 7/00** (2006.01); **E05D 11/10** (2006.01); **E05F 1/10** (2006.01); **E05F 1/12** (2006.01); **F25D 23/02** (2006.01)

CPC (source: CN EP)  
**E05D 7/0027** (2013.01 - EP); **E05D 11/1064** (2013.01 - EP); **E05F 1/1246** (2013.01 - CN); **E05F 1/1253** (2013.01 - EP); **F25D 23/028** (2013.01 - CN EP); **E05Y 2201/10** (2013.01 - EP); **E05Y 2201/418** (2013.01 - EP); **E05Y 2201/638** (2013.01 - EP); **E05Y 2600/314** (2013.01 - EP); **E05Y 2800/20** (2013.01 - EP); **E05Y 2800/75** (2013.01 - EP); **E05Y 2900/31** (2013.01 - CN EP); **F25D 2323/024** (2013.01 - EP)

Citation (search report)  
• [XY] US 2014145576 A1 20140529 - WHITE BRIAN [US], et al  
• [X] US 3452387 A 19690701 - JERILA TORSTI T T, et al  
• [Y] EP 2789944 A2 20141015 - SAMSUNG ELECTRONICS CO LTD [KR]  
• See references of WO 2019206093A1

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

DOCDB simple family (publication)  
**EP 3786400 A1 20210303**; **EP 3786400 A4 20210519**; AU 2019258466 A1 20201112; CN 109695391 A 20190430; MX 2020011113 A 20201111; WO 2019206093 A1 20191031

DOCDB simple family (application)  
**EP 19791803 A 20190422**; AU 2019258466 A 20190422; CN 201810374364 A 20180424; CN 2019083724 W 20190422; MX 2020011113 A 20190422