

Title (en)

Door Opening/Closing Device With Support Member And Support Member For Door Opening/Closing Device

Title (de)

Türöffnungs- und -schließvorrichtung mit Stützelement und Stützelement für eine Türöffnungs- und -schließvorrichtung

Title (fr)

Dispositif d'ouverture/fermeture de porte avec élément de support et élément de support pour dispositif d'ouverture/fermeture de porte

Publication

EP 2551432 A2 20130130 (EN)

Application

EP 12178070 A 20120726

Priority

JP 2011166256 A 20110729

Abstract (en)

Provided is a door opening/closing device with a support member capable of positioning the door opening/closing device at a proper position of a housing and facilitating the mounting work of the door opening/closing device to the housing. The door opening/closing device with a support member has the support member 8 which is mountable on a housing 1; and a door opening/closing device which is mounted on the support member 8 and configured to move a door 2 relative to the housing 1. The support member 8 has a first positioning part 10a for positioning at a front surface of one of an upper plate 1a and a side wall 1b of the housing 1, and a second positioning part 10b which is able to be placed against the other of the upper plate 1a and the side wall 1b of the housing 1.

IPC 8 full level

E05D 11/00 (2006.01); **E05D 15/40** (2006.01)

CPC (source: EP US)

E05D 11/0009 (2013.01 - EP US); **E05D 15/40** (2013.01 - EP US); **E05F 1/1058** (2013.01 - EP US); **E05F 1/1261** (2013.01 - EP US); **E05Y 2201/62** (2013.01 - EP US); **E05Y 2201/706** (2013.01 - EP US); **E05Y 2900/132** (2013.01 - US); **E05Y 2900/20** (2013.01 - EP US)

Citation (applicant)

- JP 2008538938 A 20081113
- JP 2004339906 A 20041202 - ONO SHIGEO
- WO 2010097996 A1 20100902 - SUGATSUNE KOGYO [JP], et al
- JP 2011166256 A 20110825 - PANASONIC CORP

Cited by

CN107798784A; AT522092A4; AT522092B1; AT519632A1; AT519632B1; US11136805B2; WO2020124109A1; US11697957B2

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 2551432 A2 20130130; **EP 2551432 A3 20141126**; CN 102900295 A 20130130; JP 2013028975 A 20130207; JP 5415490 B2 20140212; US 2013026318 A1 20130131

DOCDB simple family (application)

EP 12178070 A 20120726; CN 201210229091 A 20120703; JP 2011166256 A 20110729; US 201213557249 A 20120725