

Title (en)  
DOOR OPENING AND CLOSING DEVICE

Title (de)  
TÜRÖFFNUNGS- UND SCHLIESSVORRICHTUNG

Title (fr)  
DISPOSITIF D'OUVERTURE ET DE FERMETURE DE PORTE

Publication  
**EP 2570578 A1 20130320 (EN)**

Application  
**EP 10851428 A 20100818**

Priority  
• JP 2010111767 A 20100514  
• JP 2010063901 W 20100818

Abstract (en)  
Provided is a door opening and closing device that can be positioned properly at a door or frame. The door opening and closing device 1 has a body case 2 which is mounted on either one of the door and a frame and a movable member 4 which is provided movable on the body case 4 and collaborates with a catch 8 that is mounted on the other of the door and the frame to exert a force of assisting at least one of opening and closing operations of the door. The body case 2 is formed in a cuboid shape and has a bottom surface 2d that is attached to either one of the door and the frame. In a side surface 2a, 2b, at least one protrusion 10, 11 is provided.

IPC 8 full level  
**E05F 3/00** (2006.01); **E05F 1/14** (2006.01); **E05F 3/10** (2006.01); **E05F 5/02** (2006.01)

CPC (source: EP)  
**E05F 3/106** (2013.01); **E05F 5/02** (2013.01); **E05F 5/027** (2013.01); **E05Y 2900/132** (2013.01)

Citation (search report)  
See references of WO 2011142046A1

Cited by  
CN105545131A; CN105569483A

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