

Title (en)
INTERLOCK DEVICE FOR CAR DOOR OF ELEVATOR

Title (de)
VERRIEGELUNGSVORRICHTUNG FÜR AUFZUGSKABINENTÜR

Title (fr)
DISPOSITIF DE SYNCHRONISATION POUR PORTE DE CABINE D ASCENSEUR

Publication
EP 1860056 A4 20130424 (EN)

Application
EP 05720761 A 20050315

Priority
JP 2005004504 W 20050315

Abstract (en)
[origin: EP1860056A1] In an interlocking device for a car door of an elevator which is configured so that, in an engagement formation range where a car door 3 is engaged with the landing door 23 at a landing 21, the car door 3 is engaged with the landing door 23 to open and close; and, outside of the engagement formation range where the car door 3 is not engaged with the landing door 23 between the landings 21, opening operation of the car door 3 is blocked, a lever mechanism 7 which blocks opening operation of the car door 3 is provided on the car door 3; a part to be engaged 11 engaged with the lever mechanism 7 is provided on the car 1; and a cam 24 for restricting pivoting of the lever mechanism 7 is provided on the landing door 23. In a region where the car door 3 is not engaged with the landing door 23, opening operation of the car door 3 is mechanically blocked. The cam 24 for restricting pivoting of the lever mechanism 7 which blocks opening operation of the car door 3 is provided, thereby facilitating mounting operation of the cam 24; and the lever mechanism 7 which blocks opening operation of the car door 3 is of two axles 8 and 9, thereby allowing increased flexibility in mounting positions.

IPC 8 full level
B66B 13/18 (2006.01); **B66B 13/20** (2006.01)

CPC (source: EP)
B66B 13/20 (2013.01)

Citation (search report)
• [I] US 4423799 A 19840103 - GLASER WALTER [US], et al
• [I] US 6220396 B1 20010424 - HEATH III ERNEST A [US]
• [A] US 3721319 A 19730320 - HALL R, et al
• See references of WO 2006097997A1

Cited by
CN106698124A; CN103387173A; US10207900B2; WO2016176033A1

Designated contracting state (EPC)
DE NL

DOCDB simple family (publication)
EP 1860056 A1 20071128; EP 1860056 A4 20130424; CN 100593505 C 20100310; CN 1964911 A 20070516; JP WO2006097997 A1 20080821; WO 2006097997 A1 20060921

DOCDB simple family (application)
EP 05720761 A 20050315; CN 200580018931 A 20050315; JP 2005004504 W 20050315; JP 2007507967 A 20050315