

Title (en)

LIFTING DEVICE FOR ELEVATOR, ELEVATOR CAR FRAME, AND LIFTING METHOD FOR ELEVATOR

Title (de)

HUBVORRICHTUNG FÜR AUFZUG, AUFZUGKABINENRAHMEN UND HUBVERFAHREN FÜR AUFZUG

Title (fr)

DISPOSITIF DE LEVAGE D'ASCENSEUR, ÉTRIER DE CABINE D'ASCENSEUR ET PROCÉDÉ DE LEVAGE D'ASCENSEUR

Publication

EP 2206673 B2 20180207 (EN)

Application

EP 07829315 A 20071005

Priority

JP 2007069577 W 20071005

Abstract (en)

[origin: EP2206673A1] A lifting device 100 comprising a guide rail 8 that is arranged from a lower portion 81 to the top portion 51 of the hoistway 5; a car frame of elevator 7 that is capable of going up and down, guided by the guide rail 8, by providing a guide shoe 9 engaging with the guide rail 8, and that is used as a platform placing the weight 1 for lifting to the vicinity of the top portion 5a of the hoistway 5; and a lifting machine 3 that lifts the car frame 7 placing the weight 1 to the top portion 5a, guided by the guide rail 8. Based on this, a labor of tool dismantling can be eliminated.

IPC 8 full level

B66B 7/00 (2006.01); **B66B 19/00** (2006.01)

CPC (source: EP)

B66B 19/005 (2013.01)

Citation (opposition)

Opponent :

- EP 1593641 A1 20051109 - INVENTIO AG [CH]
- EP 0904247 B1 20020508 - KONE CORP [FI]
- WO 2007027172 A1 20070308 - OTIS ELEVATOR CO [US], et al
- JP S51116548 A 19761014 - MITSUBISHI ELECTRIC CORP
- US 5564529 A 19961015 - ERICSON RICHARD J [US], et al
- WO 9933743 A1 19990708 - KONE CORP [FI], et al
- EP 1067083 B1 20050316 - TOSHIBA KK [JP]
- JP H10109862 A 19980428 - SOOKEN KK
- "Sicherheitsregeln für die Konstruktion und den Einbau von Personen- und Lastenaufzügen sowie Kleingüteraufzügen.", DIN-EN 81, October 1986 (1986-10-01), pages 1-6/ - 27-28

Cited by

US11059701B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2206673 A1 20100714; EP 2206673 A4 20131225; EP 2206673 B1 20141217; EP 2206673 B2 20180207; CN 101821189 A 20100901; CN 101821189 B 20140129; JP 5264751 B2 20130814; JP WO2009044481 A1 20110203; KR 101223860 B1 20130117; KR 20100045526 A 20100503; WO 2009044481 A1 20090409

DOCDB simple family (application)

EP 07829315 A 20071005; CN 200780100942 A 20071005; JP 2007069577 W 20071005; JP 2009535939 A 20071005; KR 20107006435 A 20071005