

Title (en)  
Suspending apparatus of traveling cable for elevator and elevator apparatus

Title (de)  
Hängevorrichtung von Hängekabel für Aufzüge und Aufzugsvorrichtung

Title (fr)  
Appareil de suspension de câble mobile pour élévateur et appareil élévateur

Publication  
**EP 2460754 A1 20120606 (EN)**

Application  
**EP 11192066 A 20111206**

Priority  
JP 2010271375 A 20101206

Abstract (en)  
In a suspending apparatus of traveling cable for elevator, in order to realize a small and reliable suspending apparatus even for an elevator with a large stroke, the traveling cable (10) is configured to feed power to a car and exchange signals with the car. The traveling cable (10) includes a plurality of suspending wire ropes (10L, 10R) embedded therein. Each of the suspending wire ropes (10L, 10R) is incorporated into one of rope sockets (20L, 20R), respectively, and each of the rope sockets (20L, 20R) incorporating the suspending wire rope is fastened to one of thimble rods (30L, 30R), respectively, so that one end of the traveling cable is suspended from a hoistway side suspension apparatus (100) and the other end of the traveling cable is suspended from a car side suspending apparatus (200). The thimble rods (30L, 30R) is configured to have a different length from each other so as not to cause interference between the rope sockets (20L, 20R) to which a plurality of suspending wire ropes (10L, 10R) are attached. The suspending apparatus includes a traveling cable sway prevention mechanism (130) provided below a drawing point (10a) of the suspending wire ropes to suppress bending stress applied to the thimble rods due to rolling of the traveling cable.

IPC 8 full level  
**B66B 7/06** (2006.01)

CPC (source: EP)  
**B66B 7/064** (2013.01)

Citation (applicant)  
JP 2004137019 A 20040513 - TOSHIBA ELEVATOR CO LTD

Citation (search report)  
• [XYI] JP 2009126640 A 20090611 - TOSHIBA ELEVATOR CO LTD  
• [Y] JP 2001139259 A 20010522 - HITACHI BUILDING SYS CO LTD  
• [Y] JP 2008207901 A 20080911 - MITSUBISHI ELECTRIC CORP  
• [X] JP 2007308258 A 20071129 - MITSUBISHI ELECTRIC CORP

Cited by  
CN110775793A; CN114464362A; US9850096B2; CN110371824A; DE102013219825A1; US10427912B2; US10059567B2

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)  
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DOCDB simple family (publication)  
**EP 2460754 A1 20120606; EP 2460754 B1 20141119**; CN 102530679 A 20120704; CN 102530679 B 20150708; HK 1168834 A1 20130111; JP 2012121637 A 20120628; JP 5528312 B2 20140625

DOCDB simple family (application)  
**EP 11192066 A 20111206**; CN 201110375683 A 20111123; HK 12109510 A 20120927; JP 2010271375 A 20101206