

Title (en)
ELEVATOR APPARATUS

Title (de)
AUFZUGSVORRICHTUNG

Title (fr)
ASCENSEUR

Publication
EP 1602612 A4 20090805 (EN)

Application
EP 03816249 A 20030310

Priority
JP 0302793 W 20030310

Abstract (en)
[origin: EP1602612A1] The present invention aims to provide a machine-roomless elevator apparatus using a one-to-one (1:1) roping method having a simple construction for keeping hoistway dimensions to a minimum, and reducing upper portion space in the hoistway, without aggravating noise from a hoisting machine. <??>The construction includes: a hoisting machine disposed in a lower portion of a hoistway so as to be positioned in a gap between a wall surface of the hoistway and a first side of a car in a width direction; and first and second rope fastening portions respectively disposed on lower portions of first and second sides of the car in a width direction so as to be in a positional relationship having centrosymmetry relative to a position of a center of gravity of the car, half of the ropes constituting hoisting ropes wound onto a sheave of the hoisting machine being led upward from the sheave, wound over a first car return sheave disposed above the sheave in an upper portion of the hoistway, then lowered and linked to the first rope fastening portion, and a remainder of the ropes constituting the hoisting ropes being led upward from the sheave, wound over a second car return sheave disposed above the sheave in an upper portion of the hoistway, also wound over a third car return sheave disposed above the second rope fastening portion in an upper portion of the hoistway, then lowered and linked to the second rope fastening portion. <??>Thus, a machine-roomless elevator apparatus using a one-to-one (1:1) roping method for keeping hoistway dimensions to a minimum and reducing upper portion space in the hoistway is achieved. <IMAGE>

IPC 8 full level
B66B 7/06 (2006.01); **B66B 11/00** (2006.01)

CPC (source: EP)
B66B 11/0045 (2013.01); **B66B 11/008** (2013.01)

Citation (search report)
• [XY] EP 0953538 A2 19991103 - TOSHIBA KK [JP]
• [YA] WO 0222486 A1 20020321 - MITSUBISHI ELECTRIC CORP [JP] & EP 1319627 A1 20030618 - MITSUBISHI ELECTRIC CORP [JP]
• See references of WO 2004080875A1

Cited by
WO2006061888A1

Designated contracting state (EPC)
DE NL

DOCDB simple family (publication)
EP 1602612 A1 20051207; **EP 1602612 A4 20090805**; CN 100341763 C 20071010; CN 1684897 A 20051019; JP WO2004080875 A1 20060608; WO 2004080875 A1 20040923

DOCDB simple family (application)
EP 03816249 A 20030310; CN 03823337 A 20030310; JP 0302793 W 20030310; JP 2004566476 A 20030310