

Title (en)

SYSTEM HAVING A PLURALITY OF ELEVATOR CABS AND COUNTERWEIGHTS THAT MOVE INDEPENDENTLY IN DIFFERENT SECTIONS OF A HOISTWAY

Title (de)

SYSTEM MIT MEHREREN AUFZUGSKABINEN UND GEGENGEWICHTEN MIT UNABHÄNGIGER BEWEGUNG IN VERSCHIEDENEN ABSCHNITTEN EINES AUFZUGSSCHACHTES

Title (fr)

SYSTÈME COMPRENANT UNE PLURALITÉ DE CABINES D'ASCENSEUR ET DE CONTREPOIDS QUI SE DÉPLACENT INDÉPENDAMMENT DANS DIFFÉRENTES SECTIONS D'UNE CAGE D'ASCENSEUR

Publication

**EP 3024768 A4 20170426 (EN)**

Application

**EP 14829839 A 20140725**

Priority

- US 201313952528 A 20130726
- US 2014048308 W 20140725

Abstract (en)

[origin: WO2015013684A2] An elevator system which utilizes a plurality of independently moving cabs and counterweights in each elevator shaft. Each cab is connected to one or more spatially separated counterweights at different counterweight connection points. The connection points are horizontally shifted on different cabs in order to prevent interference between cabs, cables, pulleys and counterweights. The top cab may have one counterweight cable and may be connected to one or more counterweights by connection points on the roof of the cab. The cabs are mounted on two opposing vertical guide rails, and each guide rail is mounted at the center of one side of the elevator shaft. The system includes a motor attached to each of the cabs by one or more lift cables to facilitate the independent movement of all cabs. Existing buildings can also be retrofit for compatibility with the present invention.

IPC 8 full level

**B66B 11/00** (2006.01)

CPC (source: EP KR)

**B66B 1/2433** (2013.01 - KR); **B66B 7/06** (2013.01 - KR); **B66B 11/008** (2013.01 - KR); **B66B 11/0095** (2013.01 - EP KR)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2015013684A2

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

DOCDB simple family (publication)

**WO 2015013684 A2 20150129**; **WO 2015013684 A3 20150514**; CA 2919274 A1 20150129; CA 2919274 C 20180605; CN 105579378 A 20160511; EP 3024768 A2 20160601; EP 3024768 A4 20170426; JP 2016528123 A 20160915; JP 6539267 B2 20190703; KR 102244262 B1 20210423; KR 20160065081 A 20160608; TW 201518197 A 20150516; TW I568659 B 20170201

DOCDB simple family (application)

**US 2014048308 W 20140725**; CA 2919274 A 20140725; CN 201480052539 A 20140725; EP 14829839 A 20140725; JP 2016530088 A 20140725; KR 20167005048 A 20140725; TW 103125470 A 20140725