

Title (en)
ELEVATOR SYSTEM WITHOUT A MOVING COUNTERWEIGHT

Title (de)
AUFZUGSSYSTEM OHNE SICH BEWEGENDES GEGENGEWICHT

Title (fr)
SYSTEME D'ASCENSEUR SE DEPLA ANT SANS CONTREPOIDS MOBILE

Publication
EP 1631516 B1 20110914 (EN)

Application
EP 04760120 A 20040422

Priority

- US 2004012420 W 20040422
- US 0312266 W 20030422

Abstract (en)
[origin: WO2004094287A2] An elevator system (20) includes a cab (22) supported for movement within a hoistway. A plurality of cab-supported sheaves (36, 42) moves with the cab through the hoistway. A first hoistway sheave (38) is located near a first end of the hoistway, and a second hoistway sheave (40) is located near a second end of the hoistway. A load bearing member (30) is provided, which (i) extends from near the first end of the hoistway toward the cab, where the load bearing member is redirected by one of the plurality of cab-supported sheaves toward the first end of the hoistway, (ii) at least partially wraps around each of the first hoistway sheave and the second hoistway sheave, and (iii) extends from near the second end of the hoistway toward the cab, where the load bearing member is redirected by another of the plurality of cab-supported sheaves toward the second end of the hoistway. A tension device (44) maintains tension in the load bearing member.

IPC 8 full level
B66B 11/08 (2006.01); **B66B 7/10** (2006.01)

IPC 8 main group level
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CPC (source: EP)
B66B 11/007 (2013.01); **B66B 11/008** (2013.01); **B66B 11/08** (2013.01); **B66B 19/00** (2013.01)

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