

Title (en)

CAGE DEVICE FOR DOUBLE DECK ELEVATORS

Title (de)

KABINE-EINRICHTUNG FÜR DOPPELDECKAUFZÜGE

Title (fr)

DISPOSITIF DE CABINE POUR ASCENSEURS A DOUBLE CABINE

Publication

**EP 1357075 A4 20081126 (EN)**

Application

**EP 00974827 A 20001108**

Priority

JP 0007846 W 20001108

Abstract (en)

[origin: EP1357075A1] In a car apparatus for a double-deck elevator, an upper car and a lower car are suspended in a main frame by a suspending member. Also, the upper car and the lower car are suspended in relation to the main frame by an odd number roping method. The distance between the upper car and the lower car is adjusted by a car position adjusting driving machine according to distances between floors. The upper car and the lower car are provided with slack rope safeties that detect slack in the suspending member to fix the upper car and the lower car in relation to a guide rail, respectively. <IMAGE>

IPC 8 full level

**B66B 11/02** (2006.01); **B66B 1/14** (2006.01); **B66B 1/24** (2006.01); **B66B 1/42** (2006.01); **B66B 5/12** (2006.01)

CPC (source: EP)

**B66B 5/12** (2013.01); **B66B 11/0206** (2013.01); **B66B 11/022** (2013.01)

Citation (search report)

- [DA] JP S4876242 A 19731013
- [A] JP 2000309482 A 20001107 - TOSHIBA CORP
- [A] GB 191028632 A 19111211 - GOLDING OLIVER GEORGE, et al
- [A] US 5566786 A 19961022 - DE ANGELIS CLAUDIO [CH], et al
- See references of WO 0238482A1

Cited by

EP1588977A1; EP2994406A4; US2012312636A1; US9174822B2; US7624845B2; US7316294B2; EP1526104A1; EP3514096A1; US7353914B2; US10059566B2; US7232011B2; US11332344B2; US7261185B2; US10899580B2

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