Title (en)
Energy saving system for direct current elevators

Title (de)
Energiesparsystem für Gleichstromaufzüge

Title (fr)
Système d'économie d'énergie pour ascenseurs à courant continu

Publication
EP 2597061 A1 20130529 (EN)

Application
EP 12192516 A 20121114

Priority
ES 201131875 A 20111122

Abstract (en)
Energy saving system for direct current elevators, whose system can be connected to all kinds of frequency adjusters coupled to the motor of an elevator and which incorporates at least one source of power and one source of voltage; an energy storage device and an electronic control unit, with the purpose of storing the energy generated by braking, said system comprising a first DC/DC converter (6), which operates as the energy current charger; an energy storage means (7); a second DC/DC converter (8) which transfers the stored energy to the auxiliary elements (9), and an electronic energy flow control unit (10), so that the first DC/DC converter (6) and the second DC/DC converter (8) operate in series and all the energy generated by braking the elevator is stored in the storage means (7) for its subsequent use by the auxiliary elements (9).

IPC 8 full level
B66B 1/30 (2006.01)

CPC (source: EP ES)
B66B 1/302 (2013.01 - EP ES)

Citation (applicant)
- EP 2336068 A1 20110622 - ORONA S COOP [ES]
- WO 2010019126 A1 20100218 - OTIS ELEVATOR CO [US], et al
- WO 2010019122 A1 20100218 - OTIS ELEVATOR CO [US], et al
- ES 2317890 T3 20090501 - INVENTIO AG
- ES 2320094 T3 20090519 - INVENTIO AG

Citation (search report)
- [X] WO 2010019124 A1 20100218 - OTIS ELEVATOR CO [US], et al
- [I] EP 0703182 A2 19960327 - KONE OY [FI]
- [AD] EP 2336068 A1 20110622 - ORONA S COOP [ES]
- [A] US 2002109406 A1 20020815 - ABERLE MARKUS [DE], et al

Cited by
US10604378B2

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)
BA ME

DOCDB simple family (publication)
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DOCDB simple family (application)
EP 12192516 A 20121114; ES 201131875 A 20111122