

Title (en)  
ELEVATOR SYSTEM

Title (de)  
AUFZUGSANLAGE

Title (fr)  
INSTALLATION D'ASCENSEUR

Publication  
**EP 2794448 A1 20141029 (DE)**

Application  
**EP 12798675 A 20121129**

Priority  
• EP 11194604 A 20111220  
• EP 2012073990 W 20121129  
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Abstract (en)  
[origin: US2013153340A1] An elevator installation includes a cage, a counterweight, a drive and at least one support element. The cage and the counterweight are supported by the support element, which is driven by the drive to move the cage and the counterweight in opposite directions. The support element includes at least one test element, wherein the test element is contacted by at least one contacting device and connected with a measuring device so that an electrical resistance of the test element is determinable by the measuring device, wherein the electrical resistance of the test element changes due to stretching of the test element so that through measurement of the electrical resistance of the test element at least one of the following states of the elevator installation is ascertainable: loading of the cage, a slack support element, a tension difference between at least two support elements and damage of the support element.

IPC 8 full level  
**B66B 1/34** (2006.01); **B66B 5/12** (2006.01); **B66B 5/14** (2006.01); **B66B 7/12** (2006.01)

CPC (source: EP US)  
**B66B 5/0018** (2013.01 - US); **B66B 7/1223** (2013.01 - EP US); **B66B 1/3476** (2013.01 - EP US); **B66B 5/125** (2013.01 - EP US); **B66B 5/145** (2013.01 - EP US); **D07B 1/145** (2013.01 - EP US)

Citation (search report)  
See references of WO 2013092163A1

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)  
**US 2013153340 A1 20130620**; **US 9327941 B2 20160503**; BR 112014014363 A2 20170613; BR 112014014363 A8 20170613; CA 2855873 A1 20130627; CA 2855873 C 20200616; CN 104024136 A 20140903; CN 104024136 B 20160525; CO 7051017 A2 20140910; EP 2794448 A1 20141029; EP 2794448 B1 20180613; IN 4507CHN2014 A 20150911; WO 2013092163 A1 20130627

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**US 201213721774 A 20121220**; BR 112014014363 A 20121129; CA 2855873 A 20121129; CN 201280063516 A 20121129; CO 14128547 A 20140613; EP 12798675 A 20121129; EP 2012073990 W 20121129; IN 4507CHN2014 A 20140617