

Title (en)

METHOD FOR CHECKING FUNCTIONS AND CONDITIONS OF AN ELEVATOR USING AUTONOMOUS MOBILE ROBOTS

Title (de)

VERFAHREN ZUR ÜBERPRÜFUNG VON FUNKTIONEN UND ZUSTÄNDEN EINES AUFZUGS MIT AUTONOMEN MOBILEN ROBOTERN

Title (fr)

PROCÉDÉ DE VÉRIFICATION DES FONCTIONS ET DES ÉTATS D'UN ASCENSEUR FAISANT APPEL À DES ROBOTS MOBILES AUTONOMES

Publication

EP 3357852 A1 20180808 (EN)

Application

EP 17154868 A 20170206

Priority

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Abstract (en)

A method for checking functions and conditions of an elevator (1) is proposed, the method comprising the following steps: - providing at least one autonomous mobile robot (2), the robot being adapted to autonomously moving from a floor (29) of a building into a cabin (3) of the elevator (1) and vice versa; - performing a checking procedure during which the cabin (3) of the elevator (1) is displaced multiple times between various floors (29) of the building and the at least one autonomous mobile robot (2) repeatedly enters and leaves the cabin (3) at various floors (29); - monitoring the functions and conditions of the elevator (1) during the checking procedure. Therein, the autonomous mobile robots (2) may emulate e.g. normal use of the elevator (1) by passengers including load changes in the cabin (3) induced by entering or leaving passengers. Thereby, the functions and conditions of the elevator (1) may be monitored under more realistic conditions and therefore the functions and conditions may be checked with higher reliability.

IPC 8 full level

B66B 5/00 (2006.01)

CPC (source: EP)

B66B 5/0087 (2013.01)

Citation (applicant)

US 2010234990 A1 20100916 - ZINI ALDO [US], et al

Citation (search report)

- [XY] JP 2010189162 A 20100902 - TOSHIBA ELEVATOR CO LTD
- [Y] US 2015234386 A1 20150820 - ZINI ALDO [US], et al
- [X] JP 2004018174 A 20040122 - HITACHI LTD, et al

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CN110877338A; CN112777436A; CN109250593A; EP3882201A1; CN113401749A; CN109279467A; US11560289B2; JP2020109039A; JP2018144983A; EP3498649A1; EP3882191A1; US2021283777A1; CN113401738A; CN114348811A; CN115924666A; US11697208B2

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Designated extension state (EPC)

BA ME

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