

Title (en)
RFID POSITION DETECTOR ARRANGEMENT FOR AN ELEVATOR

Title (de)
RFID-POSITIONSDETEKTORANORDNUNG FÜR EINEN AUFZUG

Title (fr)
AGENCEMENT DE DÉTECTEUR DE POSITION RFID POUR UN ASCENSEUR

Publication
EP 3150535 A1 20170405 (EN)

Application
EP 15187714 A 20150930

Priority
EP 15187714 A 20150930

Abstract (en)
A position detector arrangement for an elevator (1) is proposed to comprise multiple flags (21), a flag detection sensor (19) such as e.g. a photo sensor, multiple RFID tags (39) and an RFID detector (43) for reading the identification information stored in the RFID tags (39). Each of the flags (21) is to be attached at a fixed position within an elevator shaft (5). The flag detection sensor is to be attached at a car (3) of the elevator (1). Furthermore, the flag detection sensor (19) is adapted for optically detecting a presence of the flag (21) using e.g. a light barrier arrangement. Each RFID tag (39) stores individual identification information. Furthermore, each of the RFID tags (39) is mechanically attached to one of the flags (21). Reading the individual information stored in the RFID tag (39), the position detector arrangement may provide not only information that the car (3) is located at an arbitrary one of the shaft doors but also information about the identity, i.e. about the location, of the shaft door. Accordingly, e.g. upon power cycling, the elevator may easily determine the position of the car without necessarily performing a lengthy synchronisation run.

IPC 8 full level
B66B 1/34 (2006.01)

CPC (source: EP)
B66B 1/3492 (2013.01)

Citation (applicant)
US 5682024 A 19971028 - KOOPMAN JR PHILIP J [US], et al

Citation (search report)
• [XY] EP 2325126 A1 20110525 - STEM SRL [IT]
• [Y] US 2015060210 A1 20150305 - DE COI BEAT [CH], et al
• [A] WO 2014136200 A1 20140912 - MITSUBISHI ELECTRIC CORP [JP], et al

Cited by
JP2020172392A; CN114007973A; AT520725A4; AT520725B1; US2020071126A1; CN110872039A; EP3640179A1

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

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