

Title (en)  
TESTING METHOD AND DEVICE FOR TESTING AN INTEGRITY OF AN ELEVATOR SIGNAL TRANSMISSION LINE IN AN ELEVATOR

Title (de)  
TESTVERFAHREN UND VORRICHTUNG ZUM TESTEN DER INTEGRITÄT EINER AUFZUGSSIGNALÜBERTRAGUNGSLEITUNG IN EINEM AUFZUG

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE TEST DE L'INTÉGRITÉ D'UNE LIGNE DE TRANSMISSION DE SIGNAUX DANS UN ASCENSEUR

Publication  
**EP 3753893 A1 20201223 (EN)**

Application  
**EP 19180782 A 20190618**

Priority  
EP 19180782 A 20190618

Abstract (en)  
A testing method and a testing device (41) for testing an integrity of an elevator signal transmission line (39) including a CAN bus communication cable in an elevator (1) and/or an electric series interconnection of several safety relevant components (16) in a safety chain (31) in an elevator (1) are described. The testing device (41) comprises a time domain reflectometer (43), a connection device (45) and an outputting device (47). The testing device (41) is configured for executing the testing method comprising:- using the time-domain reflectometer (43) connected to the elevator signal transmission line (39) for transmitting an electric pulse generated by the time-domain reflectometer (43) through the elevator signal transmission line (39);- detecting reflections of the electric pulse;- determining an information about a location of a fault in the elevator signal transmission line (39) based on the detected reflections of the electric pulse; and- outputting the information about the determined location of the fault. With the proposed approach, information about an absolute position of a fault within the elevator signal transmission line (39) may be automatically acquired even in high-rise elevators (1) comprising a multiplicity of safety relevant components (16). The information may be output such that for example a technician may easily find and repair the detected fault.

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Citation (applicant)  

- US 6193019 B1 20010227 - SIRIGU GERARD [FR], et al
- US 8552738 B2 20131008 - QUINN DANIEL [US]

Citation (search report)  

- [X] WO 2006108433 A1 20061019 - OTIS ELEVATOR CO [US], et al
- [A] US 2016229667 A1 20160811 - CEREGHETTI IGINO [CH], et al
- [AD] US 6193019 B1 20010227 - SIRIGU GERARD [FR], et al
- [AD] US 8552738 B2 20131008 - QUINN DANIEL [US]

Cited by  
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