

Title (en)

METHOD FOR CHECKING A PRESENT FUNCTIONAL STATE OF A BRAKE OF AN ELEVATOR INSTALLATION, AND CORRESPONDINGLY CONFIGURED ELEVATOR INSTALLATION

Title (de)

VERFAHREN ZUM PRÜFEN EINES AKTUELLEN FUNKTIONSZUSTANDS EINER BREMSE EINER AUFZUGANLAGE UND ENTSPRECHEND EINGERICHTETE AUFZUGANLAGE

Title (fr)

PROCÉDÉ DE VÉRIFICATION D'UN ÉTAT FONCTIONNEL PRÉSENT D'UN FREIN D'UNE INSTALLATION D'ASCENSEUR, ET INSTALLATION D'ASCENSEUR CONFIGURÉE DE MANIÈRE CORRESPONDANTE

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Abstract (en)

[origin: WO2021204804A1] A method and a brake monitoring device (19) for checking a present functional state of a brake (15) of an elevator installation (1) are described. The elevator installation (1) has a drive machine (11) which drives a drive pulley (13) in rotation. The brake (15) has a static part (47) and has a rotatable part (45) which is connected to the drive pulley (13) for conjoint rotation. A brake mechanism (65) with a displaceable brake element (27), a preload mechanism (39) and a release mechanism (59) is arranged on the static part (47). The brake element (27) is displaceable between a braking configuration and a released configuration. The preload mechanism (39) mechanically preloads the brake element (27) in the direction of the braking configuration thereof with an elastic preload force (43). The release mechanism (59) has an electrical actuator (55) which, in a manner dependent on a level of electrical power supplied to the actuator (55), imparts a force which acts on the brake element (27) and which counteracts the elastic preload force (43) imparted by the preload mechanism (39). The method comprises: varying the level of electrical power supplied to the actuator (55) of the release mechanism (59), and measuring a release power value, upon the exceeding of which the brake element (27) changes between the braking configuration and the released configuration, performing a comparison between the release power value and a predetermined reference power value, and identifying the present functional state of the brake (15) on the basis of a result of the comparison.

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