

Title (en)
SAFETY BRAKE AND BRAKING METHOD

Title (de)
FANGBREMSEINRICHTUNG UND FANGBREMSVERFAHREN

Title (fr)
FREIN DE SÉCURITÉ ET PROCÉDÉ DE FREINAGE

Publication
EP 3938308 B1 20230503 (DE)

Application
EP 20714491 A 20200313

Priority
• EP 2020056899 W 20200313
• DE 202019101479 U 20190315

Abstract (en)
[origin: WO2020187757A1] The invention relates to a method and a device for a safety brake for an elevator (1) comprising an upright guide rail (3). The safety brake device (4) has a housing (5) with brake elements (6, 7) which are arranged on both sides of the guide rail (3) and which can be moved along the guide rail (3), a safety restraint system (8) on both sides between the housing (5) and the brake elements (6, 7), and a brake element (6, 7) actuation device (9) which can be clamped and locked and which unlocks and declamps in response to a trigger event and brings the brake elements (6, 7) into braking engagement with the guide rail (3). Upon declamping, the actuation device (9) develops a feed force (F) and feed movement oriented transversely to the longitudinal axis (15) of the guide rail (3), said movement bringing the brake elements (6, 7) on both sides into engagement with the guide rail (3) from a laterally spaced starting position. The brake elements (6, 7) are entrained on the guide rail (3) by means of frictional contact and go into the safety restraint system (8), wherein the actuation device (9) is moved back into its starting position and is clamped and locked by the brake elements (6, 7) located in the safety restraint system (8).

IPC 8 full level
B66B 5/22 (2006.01); **B66B 5/18** (2006.01)

CPC (source: EP US)
B66B 5/18 (2013.01 - EP); **B66B 5/22** (2013.01 - EP US)

Citation (examination)
• DE 102014004356 A1 20151001 - THYSSENKRUPP ELEVATOR AG [DE]
• WO 2015071188 A1 20150521 - INVENTIO AG [CH]
• EP 1902993 A1 20080326 - WITTUR AG [DE]

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)
DE 202019101479 U1 20200618; AU 2020242986 A1 20211007; AU 2020242986 B2 20230727; BR 112021015242 A2 20211005; CN 113574001 A 20211029; CN 113574001 B 20230120; EP 3938308 A1 20220119; EP 3938308 B1 20230503; US 11884514 B2 20240130; US 2022177272 A1 20220609; WO 2020187757 A1 20200924

DOCDB simple family (application)
DE 202019101479 U 20190315; AU 2020242986 A 20200313; BR 112021015242 A 20200313; CN 202080021248 A 20200313; EP 2020056899 W 20200313; EP 20714491 A 20200313; US 202017593211 A 20200313