Title (en)

VARIABLE STROKE BUFFER FOR BUFFERING A CAR OR A COUNTERWEIGHT OF AN ELEVATOR

Title (de)

VARIABLER HUBPUFFER ZUM PUFFERN EINER KABINE ODER EINES GEGENGEWICHTS EINES AUFZUGS

Title (fr)

AMORTISSEUR À COURSE VARIABLE POUR AMORTIR UNE CABINE OU UN CONTREPOIDS D'UN ASCENSEUR

Publication

EP 4151579 A1 20230322 (EN)

Application

EP 21197923 A 20210921

Priority

EP 21197923 A 20210921

Abstract (en)

A variable stroke buffer for buffering a car or a counterweight moving in a hoistway of an elevator along a variable compression stroke comprises a buffer stand including a buffer, which is contactable by the car or the counterweight of a part of the hoistway at a decompressed position of the buffer stand and a control apparatus. The buffer stand is compressible by the buffer in a compressing direction, in which the compression stroke of the buffer stand is restricted to a compressed position, and in a decompressing direction, in which the buffer stand can decompress to the decompressed position. The control apparatus is configured to allow the compression stroke of the buffer stand in the compressing direction to a first compressed position corresponding to a first stroke, when the compression of the buffer stand is started at a first speed which is lower than a threshold speed. The control apparatus is further configured to limit the compression stroke of the buffer stand in the compressing direction to a second compressed position corresponding to a second stroke, when the compression of the buffer stand is started at a second speed which is higher than the threshold speed.

IPC 8 full level

B66B 5/28 (2006.01)

CPC (source: EP)

B66B 5/28 (2013.01); **B66B 5/282** (2013.01)

Citation (search report)

- [XAI] WO 2014079673 A1 20140530 - KONE CORP [FI]
- [X] JP 3847718 B2 20061122
- [A] CN 108190683 A 20180622 - SHANGHAI MIDDIAMOND ELEVATOR CO LTD
- [A] US 2003217895 A1 20031127 - KIGAWA HIROSHI [JP], et al

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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