

Title (en)

SAFETY SYSTEM FOR A DRIVE, WHICH HAS A CIRCULATING TRACTION MECHANISM, OF A GATE, IN PARTICULAR A LIFTING GATE, MORE PARTICULARLY A HIGH-SPEED LIFTING GATE, AND GATE COMPRISING SAID SAFETY SYSTEM

Title (de)

SICHERHEITSSYSTEM FÜR EINEN EIN UMLAUFEDES ZUGMITTEL AUFWEISENDEN ANTRIEB EINES TORES, INSBESONDERE EINES HUBTORES, WEITER INSBESONDERE EINES SCHNELLAUFEDES HUBTORES, SOWIE TOR AUFWEISEND DAS SICHERHEITSSYSTEM

Title (fr)

SYSTÈME DE SÉCURITÉ CONÇU POUR UN ENTRAÎNEMENT, ÉQUIPÉ D'UN MÉCANISME DE TRACTION À CIRCULATION, D'UNE PORTE, EN PARTICULIER D'UNE PORTE LEVANTE, PLUS PARTICULIÈREMENT D'UNE PORTE LEVANTE À HAUTE VITESSE, ET PORTE COMPRENANT LEDIT SYSTÈME DE SÉCURITÉ

Publication

EP 4204656 A1 20230705 (DE)

Application

EP 21770170 A 20210827

Priority

- DE 102020122719 A 20200831
- EP 2021073778 W 20210827

Abstract (en)

[origin: WO2022043514A1] The invention relates to a safety system (1) for a drive (50), which has a circulating traction mechanism (13), of a gate, in particular a lifting gate (100), more particularly a high-speed lifting gate (100), comprising a drive gear (11) and an output gear (10). A drive torque can be transmitted from the drive gear (11) to the output gear (10) by the traction mechanism (13), and the safety system (1) comprises a blocking element (15) that is not in engagement with the output gear (10) in a normal operating position, in which the traction mechanism (13) is intact, and is kept pretensioned in the normal position by means of a pretensioning device (28) and a holding device (20), wherein the holding device (20) is designed to release the blocking element (15) at least in the event of a break/tear of the traction mechanism (13), and the pretensioning device (28) moves the blocking element (15) out of the normal position and into a blocking position, in which at least the output gear (10) is blocked.

IPC 8 full level

E06B 9/84 (2006.01); **E05D 13/00** (2006.01)

CPC (source: EP)

E05D 13/003 (2013.01); **E05F 15/665** (2015.01); **E06B 9/84** (2013.01); **E05Y 2201/484** (2013.01); **E05Y 2201/672** (2013.01); **E05Y 2201/712** (2013.01); **E05Y 2400/44** (2013.01); **E05Y 2800/404** (2013.01); **E05Y 2900/106** (2013.01); **E05Y 2900/40** (2013.01)

Citation (search report)

See references of WO 2022043514A1

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)

DE 102020122719 A1 20220303; CN 115843322 A 20230324; EP 4204656 A1 20230705; JP 2023543967 A 20231019; WO 2022043514 A1 20220303

DOCDB simple family (application)

DE 102020122719 A 20200831; CN 202180048156 A 20210827; EP 2021073778 W 20210827; EP 21770170 A 20210827; JP 2023512657 A 20210827