

Title (en)

RETRACTION DEVICE WITH SPRING ENERGY ACCUMULATOR WHICH CAN BE COUPLED

Title (de)

EINZUGSVORRICHTUNG MIT EINKUPPELBAREM FEDERENERGIESPEICHER

Title (fr)

DISPOSITIF DE FERMETURE À ACCUMULATEUR D'ÉNERGIE DE RESSORT POUVANT ÊTRE ACCOUPLÉ

Publication

EP 3863474 A1 20210818 (DE)

Application

EP 19812662 A 20191013

Priority

- DE 102018008202 A 20181014
- DE 2019000266 W 20191013

Abstract (en)

[origin: WO2020078495A1] The invention relates to a retraction device (10) comprising a housing (20) and a driving element (60), which is guided in the housing between a parked position (62) and an end position (61), wherein a first end (112) of a spring energy accumulator (111) is connected to the housing, and the spring energy accumulator is loaded to a maximum operating value when the driving element is in the parked position and is unloaded to a residual energy value when the driving element is in the end position. A second end (113) of the spring energy accumulator can either be fixed to the housing or can be coupled to the driving element by means of a bistable coupling (150). The coupling has a blocking element (140) which can be moved between the housing and the driving element. By virtue of the invention, a low-noise retraction device with a long service life is developed.

IPC 8 full level

A47B 88/467 (2017.01)

CPC (source: EP US)

A47B 88/467 (2016.12 - EP US); **E05F 1/16** (2013.01 - US); **E05F 5/027** (2013.01 - US); **A47B 2088/4675** (2016.12 - EP US); **E05Y 2900/132** (2013.01 - US); **E05Y 2900/20** (2013.01 - US)

Citation (search report)

See references of WO 2020078495A1

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

DOCDB simple family (publication)

DE 102018008202 A1 20200416; EP 3863474 A1 20210818; EP 3863474 B1 20230510; US 11566461 B2 20230131; US 2021388656 A1 20211216; WO 2020078495 A1 20200423

DOCDB simple family (application)

DE 102018008202 A 20181014; DE 2019000266 W 20191013; EP 19812662 A 20191013; US 201917284871 A 20191013