

Title (en)

ROTARY PUSH-PULL ROPE WINDER AND SHOES

Title (de)

ROTIERENDE ZUG-DRUCK-SEILAUFROLLER UND SCHUHE

Title (fr)

ENROULEUR DE CÂBLE ROTATIF À POUSSÉE-TRACTION ET CHAUSSURES

Publication

**EP 4144250 A4 20230308 (EN)**

Application

**EP 22706723 A 20220217**

Priority

- CN 202121642700 U 20210719
- CN 2022076649 W 20220217

Abstract (en)

[origin: US2023014996A1] A rotary push-pull rope retractor includes a top cover, a follower, a seat, a control member and a base. The seat is fixedly installed on the base. An upper surface of the seat is provided with an elastic member and a pawl connected with the elastic member. The follower includes a ratchet and a rope bin. The pawl is located on one side of the ratchet and engaged with the ratchet. The control member is slidably arranged on the upper surface of the seat, and the control member can push the pawl to move away from the ratchet and compress the elastic member to separate the pawl from the ratchet, so as to switch the meshing mode or the free mode of the rotary push-pull rope retractor. The top cover is arranged above the seat, and the top cover and the follower are connected in linkage.

IPC 8 full level

**A43C 11/00** (2006.01); **A43C 7/00** (2006.01); **A43C 11/16** (2006.01); **A44B 11/00** (2006.01)

CPC (source: EP US)

**A43C 11/165** (2013.01 - EP US)

Citation (search report)

No further relevant documents disclosed

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)

**US 11751636 B2 20230912; US 2023014996 A1 20230119**; EP 4144250 A1 20230308; EP 4144250 A4 20230308

DOCDB simple family (application)

**US 202217721303 A 20220414**; EP 22706723 A 20220217