

Title (en)
REVERSING REEL AND METHOD FOR OPERATING A REVERSING REEL

Title (de)
WENDEHASPEL SOWIE VERFAHREN ZUM BETRIEB EINES WENDEHASPELS

Title (fr)
ENROULEUR ROTATIF ET PROCÉDÉ POUR FAIRE FONCTIONNER UN ENROULEUR ROTATIF

Publication
EP 3911457 A1 20211124 (DE)

Application
EP 20700790 A 20200113

Priority
• DE 102019200594 A 20190117
• DE 102019206951 A 20190514
• EP 2020050672 W 20200113

Abstract (en)
[origin: WO2020148225A1] The invention relates to a reversing reel (1) having a rotor (2) on which at least one reel mandrel (3), provided with a rotary drive, for winding tape (9) into a coil (8) is arranged eccentrically with respect to an axis of rotation (D) of the rotor (2), having at least one driven mandrel support device (4), comprising a mandrel support (5) that has a bearing head (6) for supporting a free end of the at least one reel mandrel (3), wherein the bearing head (6) is movable with the reel mandrel (3), in accordance with a variable position of the reel mandrel (3), when the reel mandrel (3) is transferred from an initial-winding position (A) into a final-winding position (F), wherein the mandrel support (5) is in the form of a first piston-cylinder arrangement (7) and the mandrel support (5) is supported in a pivotable manner via a mandrel-support bearing (11) on a slide (13) that is movable tangentially to a circular path of the reel mandrel (3), and wherein the inclination of the mandrel support (5) and the position of the bearing head (6) are adjustable such that the mandrel support (5) is oriented in accordance with a resultant force (R) from the weight force (G) of the coil (8) and the tensile force on the tape (BZ). The invention also relates to a method for winding up tapes by means of such a reversing reel.

IPC 8 full level
B21C 47/24 (2006.01); **B21C 47/00** (2006.01); **B21C 47/02** (2006.01)

CPC (source: EP US)
B21C 47/02 (2013.01 - EP US); **B21C 47/24** (2013.01 - EP); **B21C 47/245** (2013.01 - EP US); **B65H 18/0212** (2020.08 - US); **B65H 18/028** (2013.01 - US); **B21C 47/006** (2013.01 - EP US); **B65H 2301/41344** (2013.01 - US)

Citation (search report)
See references of WO 2020148225A1

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)
WO 2020148225 A1 20200723; CN 113348042 A 20210903; CN 113348042 B 20230620; DE 102019206951 A1 20200723; EP 3911457 A1 20211124; EP 3911457 B1 20220824; JP 2022516334 A 20220225; JP 7209100 B2 20230119; US 11801543 B2 20231031; US 2022080485 A1 20220317

DOCDB simple family (application)
EP 2020050672 W 20200113; CN 202080009743 A 20200113; DE 102019206951 A 20190514; EP 20700790 A 20200113; JP 2021539119 A 20200113; US 202017422776 A 20200113