

Title (en)

WINDING DEVICE FOR STRAND-LIKE MATERIAL TO BE WOUND

Title (de)

WICKELVORRICHTUNG FÜR STRANGFÖRMIGES WICKELGUT

Title (fr)

DISPOSITIF D'ENROULEMENT POUR MATÉRIAU À ENROULER EN FORME DE CORDE

Publication

EP 2935066 A1 20151028 (DE)

Application

EP 13811784 A 20131205

Priority

- DE 102012024759 A 20121218
- EP 2013003681 W 20131205

Abstract (en)

[origin: WO2014094989A1] The invention relates to a winding device for winding strand-like material to be wound (8), for example wire, having a winding disc (1) onto which the strand-like material to be wound (8) is wound up, and a housing arranged adjacently to the winding disc (1). The winding disc (1) is prevented from moving, in particular rotating, by at least one magnetic holding device (2), wherein the magnetic holding device (2) has a first magnetic arrangement (5) connected to the housing for conjoint rotation and a second magnetic arrangement (6) connected to the winding disc (1) for conjoint rotation, each magnetic arrangement having a north pole N and a south pole S. Between the first magnetic arrangement (5) and the second magnetic arrangement (6) there is a gap (4), and the first magnetic arrangement (5) and the second magnetic arrangement (6) are magnetically coupled across the gap (4), wherein the strand-like material to be wound (8) is guided through the gap (4). In this case, the two magnetic arrangements (5, 6) are arranged such that the south pole S of the first magnetic arrangement (5) is located opposite the north pole N of the second magnetic arrangement (6) and the north pole N of the first magnetic arrangement (5) is located opposite the south pole S of the second magnetic arrangement (6), with the result that particularly high holding forces are achievable. Preferably, the first magnetic arrangement (5) and/or the second magnetic arrangement (6) are formed in a horseshoe-shaped manner.

IPC 8 full level

B65H 54/82 (2006.01)

CPC (source: EP RU US)

B21C 47/14 (2013.01 - EP US); **B65H 54/82** (2013.01 - EP RU US)

Citation (search report)

See references of WO 2014094989A1

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 102012024759 A1 20140618; BR 112015013973 A2 20170711; CN 104837754 A 20150812; CN 104837754 B 20170912; EP 2935066 A1 20151028; EP 2935066 B1 20210825; ES 2891250 T3 20220126; HU E056169 T2 20220228; JP 2016505466 A 20160225; JP 6267227 B2 20180124; MX 2015007826 A 20150820; PL 2935066 T3 20220103; RU 2015129101 A 20170126; RU 2623239 C2 20170623; US 2016023862 A1 20160128; US 9809413 B2 20171107; WO 2014094989 A1 20140626

DOCDB simple family (application)

DE 102012024759 A 20121218; BR 112015013973 A 20131205; CN 201380064292 A 20131205; EP 13811784 A 20131205; EP 2013003681 W 20131205; ES 13811784 T 20131205; HU E13811784 A 20131205; JP 2015548269 A 20131205; MX 2015007826 A 20131205; PL 13811784 T 20131205; RU 2015129101 A 20131205; US 201514742511 A 20150617