

Title (en)
APPARATUS FOR DETWISTING WIRES OR CABLES WOUND IN SPOOLS

Title (de)
VORRICHTUNG ZUM ENTDRAHEN VON AUF SPULEN AUFGEWICKELTEN DRÄHTEN ODER KABELN

Title (fr)
APPAREIL POUR DÉVRILLER DES FILS OU DES CÂBLES ENROULÉS EN BOBINES

Publication
EP 4288364 A1 20231213 (EN)

Application
EP 22709797 A 20220204

Priority
• IT 202100002411 A 20210204
• IB 2022050986 W 20220204

Abstract (en)
[origin: WO2022167991A1] An apparatus (10, 110) for detwisting wires or cables (14) wound in spools (13), which comprises: - two coaxial shafts (11, 12), inserted one inside the other and kinematically independent, of which a first shaft (11) is connected to first motor means and is adapted to support, by rotating it about a rotation axis (X), one spool (13), and a second shaft (12) is connected to second motor means and supports, by rotating it about the rotation axis (X), a detwisting cage (15), which is adapted to rotate about the spool (13) with at least one guide (16, 116) for the wire or cable (14) that is being unwound from the spool (13), - at least one take-up guide (17, 117) for the wire/cable (14), which is connected to third motor means in order to rotate about the rotation axis (X) of the cage (15), oscillating toward the guide (16, 116) and/or away from it, - means for coordination of the rotation speed of the first shaft (11) with the rotation speed of the take-up guide (17, 117).

IPC 8 full level
B65H 57/20 (2006.01); **D07B 7/04** (2006.01)

CPC (source: EP US)
B21F 7/00 (2013.01 - US); **B65H 57/20** (2013.01 - EP); **D07B 7/04** (2013.01 - EP US); **D07B 2207/4004** (2013.01 - US); **D07B 2207/4013** (2013.01 - EP); **D07B 2207/409** (2013.01 - EP US); **D07B 2301/25** (2013.01 - US); **D07B 2301/258** (2013.01 - EP); **D07B 2301/3583** (2013.01 - EP US); **D07B 2401/406** (2013.01 - US)

Citation (search report)
See references of WO 2022167991A1

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)
WO 2022167991 A1 20220811; EP 4288364 A1 20231213; US 2024082906 A1 20240314

DOCDB simple family (application)
IB 2022050986 W 20220204; EP 22709797 A 20220204; US 202218263915 A 20220204