

Title (en)

BRAIDING, WINDING OR SPIRALLING MACHINE, AND METHOD FOR OPERATING SAME

Title (de)

FLECHT-, WICKEL- ODER SPIRALISIERMASCHINE UND VERFAHREN ZU DEREN BETRIEB

Title (fr)

MACHINE À TRESSER, À ENROULER OU À SPIRALISER ET PROCÉDÉ POUR LA FAIRE FONCTIONNER

Publication

EP 4004263 A1 20220601 (DE)

Application

EP 20737414 A 20200703

Priority

- DE 102019211030 A 20190725
- EP 2020068771 W 20200703

Abstract (en)

[origin: WO2021013500A1] The invention relates to a method for operating a braiding, winding or spiralling machine (1) for braiding around, wrapping around or spiralling around a strand-like material (6), in particular a cable (6), with at least one elongate material strand (9, 10) formed from at least one elongate material fibre, in particular from at least one wire. In the method, a diameter (D) of the strand-like material (6) is measured and a feed rate of the strand-like material (6) and/or a rotational speed at which the at least one elongate material strand (9, 10) moves about the longitudinal axis (5) of the strand-like material (6) is controlled by open-loop or closed-loop control depending on said diameter measured (D). In particular, a predefined degree of coverage (k) of the strand-like material (6) by the at least one elongate material strand (9, 10) can be kept substantially constant by means of an open-loop or closed-loop control of the relative feed rate (h) of the strand-like material (6) depending on the diameter measured (D).

IPC 8 full level

D04C 1/12 (2006.01); **D04C 3/12** (2006.01); **D04C 3/24** (2006.01); **D04C 3/40** (2006.01); **D04C 3/48** (2006.01); **D07B 1/14** (2006.01)

CPC (source: CN EP US)

D04C 1/12 (2013.01 - CN EP US); **D04C 3/42** (2013.01 - CN EP US); **D07B 5/005** (2013.01 - US); **D07B 7/022** (2013.01 - CN EP US); **D07B 7/14** (2013.01 - US); **D07B 7/14** (2013.01 - CN EP); **D07B 2201/2089** (2013.01 - CN EP US); **D07B 2201/209** (2013.01 - CN EP US); **D07B 2301/25** (2013.01 - US); **D07B 2301/3591** (2013.01 - US); **D07B 2501/406** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2021013500A1

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 102019211030 A1 20210128; CN 114096704 A 20220225; CN 114096704 B 20230728; EP 4004263 A1 20220601; JP 2022541327 A 20220922; MX 2022000983 A 20220216; US 2022259801 A1 20220818; WO 2021013500 A1 20210128

DOCDB simple family (application)

DE 102019211030 A 20190725; CN 202080050522 A 20200703; EP 2020068771 W 20200703; EP 20737414 A 20200703; JP 2022504677 A 20200703; MX 2022000983 A 20200703; US 202017627492 A 20200703