Title (en)
METHOD AND DEVICE FOR WEIGHING A SPOOL IN A SPOOL WINDER

Title (de)
VERFAHREN UND VORRICHTUNG ZUM WÄGEN EINER SPULE IN EINER SPULVORRICHTUNG

Title (fr)
PROCÉDÉ ET DISPOSITIF POUR PESER UNE BOBINE DANS UN ENROULEUR DE BOBINE

Publication
EP 4146573 A1 20230315 (DE)

Application
EP 21724768 A 20210503

Priority
• CH 5292020 A 20200505
• IB 2021053667 W 20210503

Abstract (en)
[origin: WO2021224750A1] The invention relates to a method for winding a thread (4) onto a spool (2) with a spool winder (1) and a controller. The spool casing (5) is retained between two retaining arms (6, 7) each having a respective receiving means (8, 9) and being rotationally fixed on a common pivot arm (10) provided with a pivot drive (13) with angular measurement, wherein at least one of the retaining arms (6) is formed in two parts and the two parts (15, 16) are connected via a load cell (12). Using the load cell (12), a bending force (27) acting on the retaining arm (6) is measured, which is controlled by the controller via a pivoting movement (14) of the pivot arm (10). A diameter (17) and a weight of the spool (5) are calculated by an evaluation unit.

IPC 8 full level
B65H 54/52 (2006.01); **B65H 63/08** (2006.01)

CPC (source: CH EP)
B65H 54/52 (2013.01 - CH EP); **B65H 63/082** (2013.01 - CH EP); **B65H 63/084** (2013.01 - CH); B65H 2515/10 (2013.01 - EP); B65H 2515/12 (2013.01 - EP); B65H 2701/31 (2013.01 - EP)

Citation (search report)
See references of WO 2021224750A1

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 2021224750 A1 20211111; CH 717382 A1 20211115; CN 115515873 A 20221223; EP 4146573 A1 20230315

DOCDB simple family (application)
IB 2021053667 W 20210503; CH 5292020 A 20200505; CN 202180033071 A 20210503; EP 21724768 A 20210503