

Title (en)

Method for distributing wound yarn and device for carrying it out

Title (de)

Verfahren zur Verteilung von aufgewickeltem Garn und Vorrichtung zur Durchführung des Verfahrens

Title (fr)

Procédé de distribution de fil enroulé et dispositif pour sa mise en oeuvre

Publication

EP 2765102 A3 20171220 (EN)

Application

EP 14153228 A 20140130

Priority

CZ 201380 A 20130207

Abstract (en)

[origin: EP2765102A2] The invention relates to a method and a device for distributing yarn wound on a cross-wound bobbin (2) at an operating unit of a textile machine, in which a yarn guide (3) actuated by a synchronous motor (43) reciprocates along the axis of the rotation of the wound bobbin (2), whereby on the synchronous motor (43) a time interval for the reciprocating travel of the yarn guide (3) from one dead centre (U1) to the other dead centre (U2) is set and the position of the yarn guide (3) is synchronized with the reference position which is between these dead centres (U1, U2). During each reciprocating travel, the time point of the actual passing of the yarn guide (3) through the reference position is detected and the time difference between the time point of the actual passing of the yarn guide (3) through the reference position and the predetermined theoretical time point of the passing of the yarn guide (3) through the reference position is evaluated and, on the basis of the detected time difference, the duration of the rotation of the synchronous motor (43) changes until the respective reciprocating travel is finished, which also leads to the change of the length of the path of the yarn guide (3) from the reference position to the dead centre (U1, U2), to which the yarn guide (3) is currently approaching.

IPC 8 full level

B65H 54/28 (2006.01)

CPC (source: EP)

B65H 54/2821 (2013.01); **B65H 54/2887** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [XAI] JP 2002167125 A 20020611 - MURATA MACHINERY LTD
- [X] WO 2010116103 A1 20101014 - RITM [FR], et al
- [XI] EP 1112953 A2 20010704 - VOLKMANNN GMBH [DE]
- [I] EP 0453622 A1 19911030 - SSM AG [CH]

Cited by

CN105780441A; CN112061868A

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)

EP 2765102 A2 20140813; EP 2765102 A3 20171220; EP 2765102 B1 20200115; CN 103979365 A 20140813; CN 103979365 B 20190430; CZ 201380 A3 20140827; CZ 304677 B6 20140827

DOCDB simple family (application)

EP 14153228 A 20140130; CN 201410106590 A 20140207; CZ 201380 A 20130207