

Title (en)
ZERO-TWIST YARN FEEDING DEVICE

Title (de)
VERDREHUNGSFREIE FADENZUFÜHRVORRICHTUNG

Title (fr)
DISPOSITIF D'ALIMENTATION DE FIL À TORSION NULLE

Publication
EP 3481981 A1 20190515 (EN)

Application
EP 17828057 A 20170620

Priority
• SE 1651028 A 20160711
• SE 2017050671 W 20170620

Abstract (en)
[origin: WO2018013033A1] Described are, among other things, methods and devices for feeding yarn to a weaving machine (10), using a weft yarn feeding arrangement (12) for feeding weft yarn (40) to a weaving machine (10) having at least one rapier (11). The yarn feeding arrangement comprises a motor driven bobbin (13) and a motor driven loop buffer device (16). The yarn feeding arrangement further comprising a controller (32) for controlling the motor of the motor driven bobbin and the motor driven loop buffer device. The controller is adapted to -drive the motor (14) of the motor driven bobbin at a speed to feed an average or essentially an average amount of weft yarn that the weaving machine consumes wherein said essentially average amount of weft yarn deviates less than a pre-set amount from the actual average amount consumed by the weaving machine. - drive the motor of the motor driven loop buffer device based on the difference between the output speed of yarn (40) from the motor driven bobbin and a model of weft yarn insertion speed in the weaving machine and -adjust the drive of the motor of the motor driven loop buffer device based on a signal representing the actual weft yarn tension.

IPC 8 full level
B65H 59/38 (2006.01); **D03D 47/34** (2006.01); **D03D 47/36** (2006.01)

CPC (source: EP)
B65H 59/34 (2013.01); **D03D 47/345** (2013.01); **D03D 47/36** (2013.01); **D03D 47/369** (2013.01); **B65H 2701/31** (2013.01)

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)
WO 2018013033 A1 20180118; CN 109415852 A 20190301; CN 109415852 B 20200918; EP 3481981 A1 20190515; EP 3481981 A4 20200304; EP 3481981 B1 20210224; JP 2019525013 A 20190905; JP 6953452 B2 20211027

DOCDB simple family (application)
SE 2017050671 W 20170620; CN 201780041959 A 20170620; EP 17828057 A 20170620; JP 2018564932 A 20170620