

Title (en)
METHOD AND IMPROVED YARN FEEDER SYSTEM AND DEVICE FOR OPTIMISING YARN FEED TO A TEXTILE MACHINE OPERATING HIGHLY DISCONTINUOUSLY OR WITH ALTERNATING MOTION

Title (de)
VERFAHREN UND VERBESSERTES FADENZUFÜHRUNGSSYSTEM UND VORRICHTUNG ZUR OPTIMIERUNG DER FADENZUFÜHRUNG ZU EINER HOCHDISKONTINUIERLICH ODER MIT WECHSELNDER BEWEGUNG FUNKTIONIERENDEN TEXTILMASCHINE

Title (fr)
PROCÉDÉ ET SYSTÈME D'ALIMENTATION EN FIL AMÉLIORÉ ET DISPOSITIF D'OPTIMISATION DE L'ALIMENTATION EN FIL D'UNE MACHINE TEXTILE FONCTIONNANT DE MANIÈRE TRÈS DISCONTINUE OU À MOUVEMENT ALTERNATIF

Publication
EP 3749603 A1 20201216 (EN)

Application
EP 19703785 A 20190204

Priority
• IT 201800002452 A 20180206
• IB 2019050874 W 20190204

Abstract (en)
[origin: WO2019155346A1] A method and a system according to the invention comprise the use of a device (2) for feeding yarn (F) to a textile machine (T), operating discontinuously or with alternating motion, and a device (1) compensating for changes in the conditions for feeding or taking up the yarn (F) by the textile machine (T), said compensator device (1) including a movable compensating means (13) that performs this compensation to maintain a constant tension in the yarn (F) even when the aforementioned change in the conditions for feeding or taking up the yarn occurs, said compensating means (13) being rigid and connected to an electric actuator, a control unit of this actuator being capable of detecting displacement of said compensating means (13) from a predetermined resting position when there is a change in take-up or feeding of the yarn and being capable of returning said compensating means (13) to the resting position after such a change. Provision is made for continuously detecting the yarn tension and operating the electric actuator to maintain this tension at a constant value.

IPC 8 full level
B65H 51/20 (2006.01); **B65H 51/22** (2006.01); **B65H 59/36** (2006.01); **B65H 59/38** (2006.01); **D04B 15/48** (2006.01)

CPC (source: EP US)
B65H 51/20 (2013.01 - EP); **B65H 51/22** (2013.01 - EP US); **B65H 59/36** (2013.01 - EP US); **B65H 59/388** (2013.01 - EP US); **D04B 15/48** (2013.01 - EP US); **B65H 2701/31** (2013.01 - EP US); **B65H 2701/36** (2013.01 - EP)

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 2019155346 A1 20190815; CN 111699144 A 20200922; CN 111699144 B 20220722; EP 3749603 A1 20201216; EP 3749603 B1 20240522; IT 201800002452 A1 20190806; JP 2021512834 A 20210520; JP 7181947 B2 20221201; TW 201936477 A 20190916; TW I780300 B 20221011; US 2021070582 A1 20210311

DOCDB simple family (application)
IB 2019050874 W 20190204; CN 201980011856 A 20190204; EP 19703785 A 20190204; IT 201800002452 A 20180206; JP 2020563837 A 20190204; TW 108103729 A 20190131; US 201916962353 A 20190204