Title (en)

METHOD FOR FEEDING A PLURALITY OF YARNS TO A TEXTILE MACHINE BY WAY OF RESPECTIVE POSITIVE YARN FEEDERS

Title (de)

VERFAHREN ZUM ZUFÜHREN MEHRERER FÄDEN ZU EINER TEXTILMASCHINE ÜBER JEWEILS POSITIVE FADENZUFÜRVORRICHTUNGEN

Title (fr)

PROCÉDÉ D'ALIMENTATION D'UNE PLURALITÉ DE FILS POUR UNE MACHINE TEXTILE AU MOYEN DE GUIDE-FILS POSITIFS RESPECTIFS

Publication

EP 3763650 A1 20210113 (EN)

Application

EP 20180924 A 20200618

Priority

IT 201900011448 A 20190711

Abstract (en)

A method for feeding a plurality of yarns to a textile machine by respective yarn feeders (12), each one of which is provided with a motorized reel (14) on which a yarn (F) is wound repeatedly. A control unit (CU) modulates the speed of the reel (14) by way of a first control loop (CL1) on the basis of a reference position signal (PS_ref) generated by a second control loop (CL2) which uses a position signal of the textile machine (MP) in order to maintain a given transmission ratio between the reel (14) and the textile machine (18). The transmission ratio is automatically corrected by a third control loop (CL3) on the basis of a measured tension signal (T meas) generated by a tension sensor (28) which is associated with the yarn (F).

IPC 8 full level

B65H 51/30 (2006.01); **B65H 51/20** (2006.01); **B65H 59/38** (2006.01)

CPC (source: CN EP)

B65H 51/20 (2013.01 - EP); **B65H 51/30** (2013.01 - EP); **B65H 59/385** (2013.01 - CN); **B65H 59/388** (2013.01 - EP); **B65H 59/40** (2013.01 - CN); B65H 2701/31 (2013.01 - CN EP)

Citation (applicant)
- EP 1901984 B1 20100922 - BTSR INT SPA [IT]
- IT 201900011448 A 20190711

Citation (search report)
- [A] EP 2754742 A1 20140716 - LGL ELECTRONICS SPA [IT]
- [A] US 6328081 B1 20011211 - GOTTI LUCA [IT], et al

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EP4116476A1; IT202100017966A1; EP4265831A1; IT202200007784A1

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

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BA ME

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DOCDB simple family (application)

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