

Title (en)

Yarn feeder with rotary drum for knitting processes with selection of the yarn and textile machine apparatus comprising at least two of these feeders

Title (de)

Fadenzuführgerät mit Drehtrommel für Strickverfahren mit Auswahl des Garns und Textilapparatur mit mindestens zwei solcher Fadenzuführgeräte

Title (fr)

Dispositif d'alimentation en fil à tambour rotatif pour processus de tricotage avec sélection du fil et appareil textile comprenant au moins deux desdits dispositifs d'alimentation en fil

Publication

EP 2708625 A1 20140319 (EN)

Application

EP 13003738 A 20130726

Priority

IT TO20120805 A 20120917

Abstract (en)

A housing (12) supports a yarn-winding drum (22) which is driven to rotate by a motor (18) controlled by an electronic circuit (C) as a function of signals from a sensor tension (40) integral with the housing (12). The tension sensor (40) comprises a flexible member (42) arranged to interfere with the yarn unwinding from the yarn-winding drum (22) and to bend to a variable extent depending on the yarn tension. The flexible member (42) incorporates circuit means (R) that generate a variable output depending on the bent configuration of the flexible member. The housing (12) has a first peripheral surface (12a) and an opposed, second peripheral surface (12b) which have mutually engageable profiles and are provided with respective male/female connectors (52, 54) for mechanical/electrical connection of a plurality of identical feeders in a stacked configuration (80). The electronic circuit (C) is programmed to enable the motor (18) to unwind yarn in response to a deformation of the flexible member (42) with respect to a resting configuration corresponding to a predetermined, minimum tension, on the basis of setup instruction transferred via the connectors (52, 54).

IPC 8 full level

D04B 15/48 (2006.01); **D04B 15/99** (2006.01)

CPC (source: EP)

D04B 15/48 (2013.01); **D04B 15/99** (2013.01)

Citation (applicant)

- US 6145347 A 20001114 - PLATH ERNST-DIETER [DE]
- EP 2218670 A1 20100818 - LGL ELECTRONICS SPA [IT]
- EP 2067729 A1 20090610 - LGL ELECTRONICS SPA [IT]

Citation (search report)

- [A] EP 0950742 A2 19991020 - B TSR INT SPA [IT]
- [A] GB 2158107 A 19851106 - MEMMINGER GUSTAV
- [A] EP 1473395 A1 20041103 - LONATI RICCARDO [IT]

Cited by

IT201900024649A1; EP3792209A1; IT201900016340A1; EP2857337A1

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 2708625 A1 20140319; EP 2708625 B1 20180718; CN 103668753 A 20140326; CN 103668753 B 20161005; IT TO20120805 A1 20140318

DOCDB simple family (application)

EP 13003738 A 20130726; CN 201310422657 A 20130916; IT TO20120805 A 20120917