

Title (en)

Yarn feeder with rotary drum for textile machines

Title (de)

Fadenliefervorrichtung mit Drehtrommel für Textilmaschinen

Title (fr)

Dispositif d'alimentation de fil à tambour rotatif pour machines textiles

Publication

EP 2664569 A1 20131120 (EN)

Application

EP 13000427 A 20130129

Priority

IT TO20120435 A 20120517

Abstract (en)

A shell (12) has a motor (18) housed therein, which is provided with a driving shaft (20) having a yarn-winding drum (22) mounted thereto. A lever (28) hinged to the shell (12) is slidably engaged by the yarn (F). Return means (42, 44) bias the lever (28) toward a stop position, in which it deviates the yarn coming from the drum (22) with respect to its feeding direction to a downstream machine. The lever (28) is subject to swing in contrast to the return means (42, 44) in relation to the variations of tension of the yarn (F). Sensor means (46, 48) detect the movements of the lever (28) with respect to the stop position and generate a corresponding activation signal. An electronic circuit (50) is operatively connected to the sensor means (46, 48) and is programmed to activate the motor (18) to unwind yarn in response to the activation signal.

IPC 8 full level

B65H 51/22 (2006.01); **B65H 59/38** (2006.01); **D04B 15/48** (2006.01)

CPC (source: EP)

B65H 51/22 (2013.01); **B65H 59/388** (2013.01); **D04B 15/48** (2013.01); **B65H 2701/31** (2013.01)

Citation (applicant)

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

Citation (search report)

- [AD] EP 2218670 A1 20100818 - LGL ELECTRONICS SPA [IT]
- [A] US 5454151 A 19951003 - BOGUCKI-LAND BOGDAN [DE], et al
- [A] US 4545543 A 19851008 - PLUCKNETT DEREK W [GB]
- [A] US 4483159 A 19841120 - CUCCONI ENZO [IT], et al

Cited by

CN116207945A; 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 2664569 A1 20131120; **EP 2664569 B1 20150923**; CN 103420223 A 20131204; CN 103420223 B 20170801; IT TO20120435 A1 20131118

DOCDB simple family (application)

EP 13000427 A 20130129; CN 201310072174 A 20130306; IT TO20120435 A 20120517