

Title (en)
YARN STORAGE DEVICE AND YARN WINDING DEVICE

Title (de)
GARNAUFBEWAHRUNGSVORRICHTUNG UND GARNAUFWICKLUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE STOCKAGE DE FIL ET DISPOSITIF DE BOBINAGE DE FIL

Publication
EP 2674378 A1 20131218 (EN)

Application
EP 11858180 A 20111214

Priority
• JP 2011024152 A 20110207
• JP 2011006976 W 20111214

Abstract (en)
A yarn accumulation device (18) is configured to wind and accumulate a yarn on a yarn accumulation part (37) that is formed on an outer circumferential surface of a yarn accumulation roller (32), the yarn being unwound from the yarn accumulation part (37) in a direction along a rotation axis of the yarn accumulation roller (32). The yarn accumulation device (18) includes a tension applying part (38). The tension applying part (38) is arranged at an unwinding side of the yarn accumulation part (37). The tension applying part (38) is configured to rotate integrally with the yarn accumulation part (37) and in this condition applies a tension to the yarn being unwound from the yarn accumulation part (37). The tension applying part (38) includes a rubber ring (51) made of an expandable elastic material, and an enlarged/reduced portion (50) provided radially inside the rubber ring (51) and configured such that the yarn is nipped between the enlarged/reduced portion (50) and the rubber ring (51). The enlarged/reduced portion (50) is configured to enlarge or reduce its diameter in accordance with the speed of rotation of the yarn accumulation roller (32).

IPC 8 full level
B65H 51/22 (2006.01); **D01H 4/48** (2006.01)

CPC (source: EP)
B65H 51/22 (2013.01); **D01H 4/48** (2013.01); **B65H 2701/31** (2013.01)

Cited by
EP2998255A1; CN105398880A

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

DOCDB simple family (publication)
EP 2674378 A1 20131218; **EP 2674378 A4 20140723**; **EP 2674378 B1 20150722**; CN 103354798 A 20131016; CN 103354798 B 20150415; JP 2012162362 A 20120830; JP 5804306 B2 20151104; WO 2012107984 A1 20120816

DOCDB simple family (application)
EP 11858180 A 20111214; CN 201180067066 A 20111214; JP 2011006976 W 20111214; JP 2011024152 A 20110207