

Title (en)
YARN WINDING DEVICE AND TEXTILE MACHINE

Title (de)
GARNWICKELVORRICHTUNG UND TEXTILMASCHINE

Title (fr)
DISPOSITIF DE BOBINAGE DE FIL ET MACHINE TEXTILE

Publication
EP 3000756 A1 20160330 (EN)

Application
EP 15177613 A 20150721

Priority
JP 2014174571 A 20140828

Abstract (en)
A winding unit (2) includes a yarn supplying section (7), a yarn storage section (5), a package forming section (8), a yarn joining device (14), a tension applying section (12), and a control section (25). The yarn storage section (5) winds and stores a yarn (20) supplied by the yarn supplying section (7) around a yarn storage roller (32). The package forming section (8) pulls out the yarn (20) from the yarn storage section (5) and winds the pulled out yarn (20) to form a package (30). The yarn joining device (14) connects the yarns when the yarn (20) is disconnected between the yarn supplying section (7) and the yarn storage section (5). The tension applying section (12) is arranged between the yarn supplying section (7) and the yarn storage section (5), and is adapted to apply tension to the yarn (20). After completion of the yarn joining operation by the yarn joining device (14), the control section (25) performs a control to rotate the yarn storage roller (32) from a stopped state while changing the acceleration rate in the winding direction of the yarn storage roller (32).

IPC 8 full level
B65H 51/22 (2006.01)

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

Citation (applicant)
WO 2012127939 A1 20120927 - MURATA MACHINERY LTD [JP], et al

Citation (search report)
• [X] EP 2107025 A2 20091007 - MURATA MACHINERY LTD [JP]
• [A] EP 2626323 A2 20130814 - MURATA MACHINERY LTD [JP]
• [AD] WO 2012127939 A1 20120927 - MURATA MACHINERY LTD [JP], et al & EP 2687468 A1 20140122 - MURATA MACHINERY LTD [JP]

Cited by
CN111485303A

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 3000756 A1 20160330; **EP 3000756 B1 20161102**; CN 105366425 A 20160302; CN 105366425 B 20191115; JP 2016050054 A 20160411

DOCDB simple family (application)
EP 15177613 A 20150721; CN 201510397720 A 20150708; JP 2014174571 A 20140828