

Title (en)
YARN WINDING MACHINE

Title (de)
GARNWICKLUNGSMASCHINE

Title (fr)
MACHINE DE RENVIDEUR DE FIL

Publication
EP 3025995 A1 20160601 (EN)

Application
EP 15188743 A 20151007

Priority
JP 2014239842 A 20141127

Abstract (en)
A spinning unit (2) includes a draft device (6), a pneumatic spinning device (7), a core yarn supplying device (200), a winding device (13), a splicer (26), and a suction mouth (28). The winding device (13) is adapted to perform a first unwinding operation to unwind a spun yarn (Y) having a core yarn (C) from a package (P) by reversely rotating the package (P) when the suction mouth (28) is performing a yarn guiding operation. The winding device (13) is adapted to perform a second unwinding operation to unwind the spun yarn (Y) from the package (P) by reversely rotating the package (P) after the suction mouth (28) finishes the yarn guiding operation and before the splicer (26) starts the yarn joining operation. The suction mouth (28) sucks the spun yarn (Y) from the package (P) while a reverse rotation mechanism (33) is performing the second unwinding operation.

IPC 8 full level
B65H 67/08 (2006.01); **B65H 69/06** (2006.01); **D01H 1/115** (2006.01); **D02G 3/36** (2006.01)

CPC (source: EP)
B65H 67/085 (2013.01); **B65H 69/06** (2013.01); **D01H 1/115** (2013.01); **D01H 15/00** (2013.01); **D02G 3/367** (2013.01); **B65H 2701/31** (2013.01)

Citation (applicant)
JP H02165 A 19900105 - PFW BEHEER BV

Citation (search report)
• [YA] EP 1184495 A2 20020306 - MURATA MACHINERY LTD [JP]
• [Y] EP 2727870 A2 20140507 - MURATA MACHINERY LTD [JP]
• [AD] JP H11200165 A 19990727 - MURATA MACHINERY LTD
• [A] US 4535945 A 19850820 - ROHNER JOACHIM [DE], et al

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 3025995 A1 20160601; **EP 3025995 B1 20170719**; CN 105645178 A 20160608; CN 105645178 B 20191112; JP 2016102269 A 20160602

DOCDB simple family (application)
EP 15188743 A 20151007; CN 201510731373 A 20151102; JP 2014239842 A 20141127