

Title (en)
Spinning machine with yarn accumulating roller

Title (de)
Spinnmaschine mit Garnspeicher-Rolle

Title (fr)
Machine à filer avec rouleau accumulateur de fil

Publication
EP 2298971 A1 20110323 (EN)

Application
EP 10162086 A 20100506

Priority
JP 2009186065 A 20090810

Abstract (en)
A spinning frame includes a yarn accumulating roller (21), an electric motor (25), and a unit controller (60). The yarn accumulating roller (21) temporarily accumulates a spun yarn produced by a spinning device (9) by winding the spun yarn around an outer peripheral surface thereof and rotating. The electric motor (25) drives and rotates the yarn accumulating roller (21). The unit controller (60) carries out a first control to control the electric motor (25) to rotate the yarn accumulating roller backward when it is necessary to unwind the spun yarn wound around the yarn accumulating roller. Next, the unit controller (60) carries out a second control to control the electric motor (25) to rotate the yarn accumulating roller (21) backward at a speed which is higher than a rotational speed during the first control. Then, the unit controller (60) carries out a control to spin off a yarn entangled with a flyer (38) or the like by temporarily increasing a backward rotational speed of the yarn accumulating roller (21) during the second control.

IPC 8 full level
D01H 4/48 (2006.01); **B65H 51/22** (2006.01); **D01H 9/08** (2006.01); **D01H 13/10** (2006.01)

CPC (source: EP)
B65H 51/22 (2013.01); **D01H 4/48** (2013.01); **D01H 9/08** (2013.01); **D01H 13/10** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)
• [AP] EP 2169096 A1 20100331 - MURATA MACHINERY LTD [JP]
• [A] EP 2075359 A2 20090701 - MURATA MACHINERY LTD [JP]
• [A] EP 1407995 A2 20040414 - MURATA MACHINERY LTD [JP]
• [A] EP 1460015 A1 20040922 - MURATA MACHINERY LTD [JP]
• [A] JP 2005281909 A 20051013 - MURATA MACHINERY LTD

Cited by
ITUB20155174A1; EP2361867A3; EP2573217A3; EP2573224A3; EP2573225A3; WO2017072641A1

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 SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2298971 A1 20110323; **EP 2298971 B1 20120711**; CN 101994174 A 20110330; CN 101994174 B 20140910; JP 2011037572 A 20110224

DOCDB simple family (application)
EP 10162086 A 20100506; CN 201010229281 A 20100714; JP 2009186065 A 20090810