

Title (en)
Yarn processing method and spinning machine

Title (de)
Garnverarbeitungsverfahren und Spinnmaschine

Title (fr)
Procédé de traitement de fils et fileuse

Publication
EP 2216432 A1 20100811 (EN)

Application
EP 09178604 A 20091210

Priority
JP 2009024200 A 20090204

Abstract (en)
A spinning machine includes a spinning device (9), a winding device (13), a yarn accumulating roller (21), a yarn hooking member (22), and a yarn removing lever (28). The yarn accumulating roller (21) winds spun yarn around an outer peripheral surface thereof and rotates with the spun yarn wound around to feed the spun yarn from the spinning device (9) while applying tension to the spun yarn. While being engaged with the spun yarn, the yarn hooking member (22) rotates integrally with the yarn accumulating roller (21), and thus prevents the spun yarn from being unwound from the outer peripheral surface of the yarn accumulating roller. The yarn removing lever (28) is arranged downstream of the yarn hooking member (22) in a yarn transporting direction, and can be moved between a lowered position where the yarn removing lever (28) does not make contact with the spun yarn and a lifted position where the yarn hooking member (22) makes contact with the spun yarn. At the lifted position, the yarn removing lever (28) removes the spun yarn from the yarn hooking member (22).

IPC 8 full level
D01H 4/48 (2006.01); **D01H 9/08** (2006.01)

CPC (source: EP)
B65H 51/22 (2013.01); **D01H 1/115** (2013.01); **D01H 4/48** (2013.01); **D01H 9/08** (2013.01); **D01H 15/00** (2013.01); **B65H 2701/30** (2013.01)

Citation (applicant)
• US 4553709 A 19851119 - BOCK ERICH [DE], et al
• EP 1598295 A1 20051123 - RICAMBI TESSILI RI TE SPA [IT]
• EP 2028149 A2 20090225 - MURATA MACHINERY LTD [JP]
• EP 1717182 A2 20061102 - MURATA MACHINERY LTD [JP]
• EP 1764333 A2 20070321 - ZAMATTIO SERGIO [IT]

Citation (search report)
• [AD] EP 1407995 A2 20040414 - MURATA MACHINERY LTD [JP]
• [A] EP 1460015 A1 20040922 - MURATA MACHINERY LTD [JP]

Cited by
EP2573217A3; EP2749515A3; CN111485303A; EP2985371B1

Designated contracting state (EPC)
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

DOCDB simple family (publication)
EP 2216432 A1 20100811; **EP 2216432 B1 20150506**; **EP 2216432 B2 20181010**; CN 101792076 A 20100804; CN 101792076 B 20130313; JP 2010180007 A 20100819

DOCDB simple family (application)
EP 09178604 A 20091210; CN 200910261150 A 20091228; JP 2009024200 A 20090204