

Title (en)
Spinning unit and spinning machine

Title (de)
Spinneinheit und Spinnmaschine

Title (fr)
Procédé de classification de recaptures de projection

Publication
EP 2573018 A3 20160427 (EN)

Application
EP 12174931 A 20120704

Priority
JP 2011205327 A 20110920

Abstract (en)
[origin: EP2573018A2] A spinning unit includes a drafting device and a spinning device that supply a spun yarn, a winding device that winds the spun yarn to form a package, a unit frame that supports the drafting device, the spinning device, and the winding device, and a yarn processing module (80) that is detachably mounted on the unit frame. The yarn processing module (80) includes a yarn pooling device (50) that pools the spun yarn between the drafting device and the spinning device, and the winding device.

IPC 8 full level
B65H 51/22 (2006.01); **B65H 54/72** (2006.01); **D01H 4/48** (2006.01); **D01H 13/10** (2006.01)

CPC (source: EP)
B65H 51/22 (2013.01); **B65H 54/72** (2013.01); **D01H 13/104** (2013.01); **B65H 2601/324** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [XDAI] JP 2010174421 A 20100812 - MURATA MACHINERY LTD
- [E] EP 2573224 A2 20130327 - MURATA MACHINERY LTD [JP]
- [XAI] EP 2365115 A1 20110914 - MURATA MACHINERY LTD [JP]
- [A] DE 2558419 A1 19770707 - SCHUBERT & SALZER MASCHINEN
- [A] US 4553709 A 19851119 - BOCK ERICH [DE], et al

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EP3321399A1; CN105398880A; EP3514275A1; CN110055641A

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 2573018 A2 20130327; EP 2573018 A3 20160427; EP 2573018 B1 20181121; CN 103014937 A 20130403; CN 103014937 B 20160831; JP 2013067872 A 20130418

DOCDB simple family (application)
EP 12174931 A 20120704; CN 201210223650 A 20120627; JP 2011205327 A 20110920