

Title (en)  
Spinning unit with a yarn pooling device, and spinning machine

Title (de)  
Spinneinheit mit einer Garnspeichervorrichtung, und Spinnmaschine

Title (fr)  
Unité de filage avec un dispositif de stockage de fil, et fileuse

Publication  
**EP 2573019 A2 20130327 (EN)**

Application  
**EP 12184653 A 20120917**

Priority  
JP 2011205330 A 20110920

Abstract (en)  
A yarn pooling roller (51) includes a yarn pooling section (52), a first tapering section (58) that widens from a base end section (52a) of the yarn pooling section (52) towards the yarn supplying device side by a first inclination angle ( $\alpha_1$ ), and a second tapering section (59) that widens from the first tapering section (58) towards the yarn supplying device side by a second inclination angle ( $\alpha_2$ ) that is smaller than the first inclination angle ( $\alpha_1$ ). The second tapering section (59) receives the guided spun yarn (Y) and prevents an end of the spun yarn Y from moving towards the tip end section (52b) side of the yarn pooling section (52) at a breakage of the spun yarn Y. The first tapering section (58) guides the spun yarn (Y) received by the second tapering section (59) to the base end section (52a).

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

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

Citation (applicant)  
• JP 2010174421 A 20100812 - MURATA MACHINERY LTD  
• JP 2010089908 A 20100422 - MURATA MACHINERY LTD  
• JP 2010076889 A 20100408 - MURATA MACHINERY LTD

Cited by  
EP2565307A3; EP3269852A1

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 2573019 A2 20130327**; **EP 2573019 A3 20140723**; **EP 2573019 B1 20170118**; CN 103014957 A 20130403; CN 103014957 B 20161102; JP 2013067447 A 20130418

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