

Title (en)
Yarn winding unit and yarn winding machine

Title (de)
Garnwickleinheit und Garnwickelmaschine

Title (fr)
Unité de bobinage de fil et machine de bobinage de fil

Publication
EP 2570375 A2 20130320 (EN)

Application
EP 12177666 A 20120724

Priority
JP 2011202122 A 20110915

Abstract (en)
A spinning machine (1) is a yarn winding unit including a frame (6), and a cradle device (100) including a cradle arm (71) adapted to rotatably hold a package (45) around which a spun yarn (10) is wound, an air cylinder (60, 160) adapted to drive the cradle arm (71), and an electromagnetic valve (63a, 64a, 68a) of a male connector section (103) adapted to control the air cylinder (60, 160), the cradle device (100) being a module provided detachably to the frame.

IPC 8 full level
B65H 54/42 (2006.01); **B65H 54/52** (2006.01); **B65H 54/553** (2006.01); **B65H 54/72** (2006.01)

CPC (source: EP)
B65H 54/42 (2013.01); **B65H 54/52** (2013.01); **B65H 54/553** (2013.01); **B65H 54/72** (2013.01); **B65H 2701/31** (2013.01)

Citation (applicant)
JP 2011037608 A 20110224 - MURATA MACHINERY LTD

Cited by
CN107840199A; EP2862826A1; EP2862825A1

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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

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BA ME

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EP 2570375 A2 20130320; **EP 2570375 A3 20151125**; **EP 2570375 B1 20170322**; CN 102995175 A 20130327; CN 102995175 B 20170616; IN 1696DE2012 A 20150925; JP 2013063809 A 20130411

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