

Title (en)

YARN STORAGE ROLLER, YARN STORAGE DEVICE, AND YARN WINDING MACHINE

Title (de)

GARNSPEICHERROLLE, GARNSPEICHERVORRICHTUNG UND GARNWICKLUNGSMASCHINE

Title (fr)

ROULEAU DE STOCKAGE DE FIL, DISPOSITIF DE STOCKAGE DE FIL ET MACHINE DE BOBINAGE DE FIL

Publication

EP 2927173 A1 20151007 (EN)

Application

EP 15161653 A 20150330

Priority

JP 2014072247 A 20140331

Abstract (en)

A yarn storage roller (51) includes a roller main body (52) made of aluminum or aluminum alloy, and a coating layer (57A) formed on the roller main body (52), wherein a Vickers hardness (Hv) of the coating layer (57A) is greater than or equal to 550.

IPC 8 full level

B65H 51/22 (2006.01); **D01H 13/10** (2006.01)

CPC (source: EP)

B65H 51/22 (2013.01); **D01H 13/104** (2013.01); **B65H 2701/31** (2013.01)

Citation (applicant)

- JP 2013063839 A 20130411 - MURATA MACHINERY LTD
- JP 2010174421 A 20100812 - MURATA MACHINERY LTD
- JP 2013159467 A 20130819 - MURATA MACHINERY LTD

Citation (search report)

- [Y] EP 2354069 A2 20110810 - MURATA MACHINERY LTD [JP]
- [Y] US 4358922 A 19821116 - FELDSTEIN NATHAN
- [YD] JP 2013159467 A 20130819 - MURATA MACHINERY LTD & EP 2626323 A2 20130814 - MURATA MACHINERY LTD [JP]
- [Y] GB 1037629 A 19660727 - BRITISH NYLON SPINNERS LTD
- [A] DE 102010035584 A1 20110324 - OERLIKON TEXTILE GMBH & CO KG [DE]
- [A] GB 1401401 A 19750716 - RUETI TE STRAKE BV
- [A] GB 1097028 A 19671229 - SHIMADZU CORP

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 2927173 A1 20151007; CN 104944211 A 20150930; JP 2015193451 A 20151105

DOCDB simple family (application)

EP 15161653 A 20150330; CN 201510145856 A 20150330; JP 2014072247 A 20140331