Title (en)

Cradle, winding unit, and yarn winding machine

Title (de)

Wiege, Wickeleinheit und Garnwickelmaschine

Title (fr)

Berceau, unité d'enroulement et machine d'enroulement de fils

Publication

EP 2570376 A3 20151125 (EN)

Application

EP 12167612 A 20120511

Priority

JP 2011201972 A 20110915

Abstract (en)

[origin: EP2570376A2] A cradle includes a cradle main body, a larger-diameter side bobbin holding section, and a rotation preventing section. The larger-diameter side bobbin holding section is rotatably mounted on the cradle main body and adapted to hold a winding bobbin around which a yarn is wound. The larger-diameter side bobbin holding section includes a base member (70) and a contact member. The base member (70) is rotatably mounted on the cradle main body. The contact member is detachably mounted to the base member (70) by at least a portion of the contact member being elastically deformed, and adapted to hold the winding bobbin by making contact with the winding bobbin. The rotation preventing section is adapted to present relative rotation of the contact member with respect to the base member (70).

IPC 8 full level

B65H 54/553 (2006.01); **B65H 54/54** (2006.01); **B65H 54/74** (2006.01)

CPC (source: EP)

B65H 54/543 (2013.01); **B65H 54/553** (2013.01); **B65H 54/74** (2013.01); B65H 2701/31 (2013.01)

Citation (search report)

- [XI] US 2755027 A 19560717 - JONES EARL R, et al
- [I] US 3596847 A 19710803 - PETERSON ARNOLD G
- [XI] US 1870202 A 19320802 - RICHARD GOLLONG

Cited by

CN105668321A; CN107399642A

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 2570376 A2 20130320; **EP 2570376 A3 20151125**; **EP 2570376 B1 20170705**; CN 102992100 A 20130327; CN 102992100 B 20161214; JP 2013063808 A 20130411

DOCDB simple family (application)

EP 12167612 A 20120511; CN 201210180466 A 20120604; JP 2011201972 A 20110915