

Title (en)
Yarn winding apparatus and spinning machine

Title (de)
Garnwickelvorrichtung und Spinnmaschine

Title (fr)
Appareil d'enroulement de fil et machine à filer

Publication
EP 2208699 A2 20100721 (EN)

Application
EP 09015548 A 20091216

Priority
• JP 2009007210 A 20090116
• JP 2009010820 A 20090121

Abstract (en)
The present invention provides a yarn winding apparatus which, even when the relative positional relationship between each take-up tube and the corresponding traverse device is deteriorated, enables a package to be formed at the desired position with respect to the corresponding take-up tube. A yarn winding apparatus 1 includes a bobbin holder 3 on which a plurality of take-up tubes 2 are installed and supported on the same shaft, and a plurality of traverse devices 5 each including a yarn guide 4 and configured to reciprocate the yarn guide 4 to traverse a yarn Y with respect to a corresponding take-up tube 2. Each of the traverse devices 5 allows a reciprocating range of reciprocation of the yarn guide 4 to be varied and is located in association with the corresponding take-up tube 2.

IPC 8 full level
B65H 54/28 (2006.01); **B65H 54/32** (2006.01); **B65H 59/00** (2006.01)

CPC (source: EP KR)
B65H 54/2821 (2013.01 - EP); **B65H 54/2881** (2013.01 - EP); **B65H 54/32** (2013.01 - EP); **B65H 54/56** (2013.01 - KR); **B65H 54/58** (2013.01 - KR); **B65H 59/00** (2013.01 - EP); **B65H 2701/31** (2013.01 - EP)

Citation (applicant)
• JP H0524740 A 19930202 - TORAY INDUSTRIES
• JP 2002167125 A 20020611 - MURATA MACHINERY LTD

Cited by
WO2021018679A1

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2208699 A2 20100721; **EP 2208699 A3 20131030**; **EP 2208699 B1 20170301**; CN 101780901 A 20100721; CN 101780901 B 20121128; EP 2792629 A1 20141022; EP 2792629 B1 20170329; KR 101329103 B1 20131114; KR 20100084460 A 20100726

DOCDB simple family (application)
EP 09015548 A 20091216; CN 200910263728 A 20091230; EP 14164384 A 20091216; KR 20090113805 A 20091124