Title (en)
   Yarn winding device

Title (de)
   Garnwicklungsvorrichtung

Title (fr)
   Dispositif de renvideur de fil

Publication
   EP 2366651 A2 20110921 (EN)

Application
   EP 11156714 A 20110303

Priority
   JP 2010060896 A 20100317

Abstract (en)
   An automatic winder includes a cradle (23) that rotatably supports a winding bobbin, a contact roller (29) that rotates while making contact with
   a package (30), a traverse arm (74), and a traverse driving motor (76) that rotationally drives the traverse arm (74). A yarn guide section (73) is
   arranged at a tip end of the traverse arm (74) in order to guide yarn, and the yarn guide section (73) traverses the yarn. The yarn guide section (73)
   includes a terminal section and an opened section. The terminal section regulates the yarn on the tip end of the yarn guide section (73). The opened
   section is formed facing towards a base end of the traverse arm (74) so as to guide the yarn to the terminal section. When viewed from an axial
   direction of the contact roller (29), a rotational axis line (L1) of the traverse arm (74) and a yarn path line (L3), which is formed by extending a yarn
   path near the yarn guide section (73) at a traverse end, intersect while forming an acute angle or are parallel to one another.

IPC 8 full level
   B65H 67/08 (2006.01); **B65H 54/28** (2006.01); **B65H 57/00** (2006.01)

CPC (source: EP)
   B65H 54/2827 (2013.01); **B65H 57/003** (2013.01); **B65H 57/006** (2013.01); **B65H 67/085** (2013.01); B65H 2701/31 (2013.01)

Citation (applicant)
   • JP 2006298499 A 20061102 - MURATA MACHINERY LTD
   • JP 2002518276 A 20020625

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 2366651 A2 20110921; **EP 2366651 A3 20120215**; **EP 2366651 B1 20131120**; CN 102190208 A 20110921; CN 102190208 B 20150617;
   CN 202089642 U 20111228; JP 2011195217 A 20111006; JP 5545593 B2 20140709

DOCDB simple family (application)
   EP 11156714 A 20110303; CN 201110048439 A 20110223; CN 201120050967 U 20110223; JP 2010060896 A 20100317