

Title (en)
Winding device

Title (de)
Wicklungsvorrichtung

Title (fr)
Dispositif d'enroulement

Publication
EP 2712833 A3 20150218 (EN)

Application
EP 13179850 A 20130809

Priority
JP 2012217668 A 20120928

Abstract (en)
[origin: EP2712833A2] A winding device (100) includes a yarn supplying section (11) in which a yarn supplying bobbin (B) is arranged, a winding section (6) adapted to wind a spun yarn (Y) into a package (P), and a tension applying section (3) arranged in a yarn path between the yarn supplying section (11) and the winding section (6) and adapted to apply a tension on the spun yarn (Y). The tension applying section (3) includes a plurality of contact members (41, 44) adapted to apply the tension on the spun yarn (Y) by making contact with the spun yarn (Y) and bending the spun yarn (Y). The contact members (41, 44) are arranged with an interval (L) between each other, and the interval (L) between the contact members (41, 44) in a yarn path direction is 5 mm or more.

IPC 8 full level
B65H 59/30 (2006.01)

CPC (source: EP)
B65H 59/30 (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [X] US 2571678 A 19511016 - BURNS PAUL J
- [IDA] JP 2010126322 A 20100610 - MURATA MACHINERY LTD
- [A] US 5592976 A 19970114 - ZWIENER RUDOLF [CH]

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 2712833 A2 20140402; EP 2712833 A3 20150218; EP 2712833 B1 20190529; CN 103708287 A 20140409; JP 2014069930 A 20140421; TR 201909290 T4 20190722

DOCDB simple family (application)
EP 13179850 A 20130809; CN 201310392226 A 20130902; JP 2012217668 A 20120928; TR 201909290 T 20130809