

Title (en)  
Yarn winding device

Title (de)  
Garnwicklungsvorrichtung

Title (fr)  
Dispositif de renvidage de fil

Publication  
**EP 2530039 A3 20151014 (EN)**

Application  
**EP 12156893 A 20120224**

Priority  
JP 2011124660 A 20110602

Abstract (en)  
[origin: EP2530039A2] A yarn winding device includes a winding section (17), a winding-angle pattern storage section (72), and a winding control section (73). The winding section is adapted to wind a yarn (20) around a winding bobbin (22) to form a conical package (30). The winding-angle pattern storage section is adapted to store a winding-angle pattern that associates a thickness of a yarn layer of the package with a winding-angle. The winding control section is adapted to control the winding section so as to wind the yarn with the winding-angle determined in accordance with the winding-angle pattern stored in the winding-angle pattern storage section.

IPC 8 full level  
**B65H 54/10** (2006.01); **B65H 54/38** (2006.01)

CPC (source: EP)  
**B65H 54/103** (2013.01); **B65H 54/38** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [Y] EP 1321412 A2 20030625 - SCHLAFHORST & CO W [DE]
- [YD] JP H03288769 A 19911218 - TOYO BOSEKI
- [A] EP 1300356 A1 20030409 - ASAHI CHEMICAL IND [JP]
- [A] JP H0761708 A 19950307 - TOYO BOSEKI
- [AD] JP 2007204191 A 20070816 - MURATA MACHINERY LTD
- [A] JP H05116847 A 19930514 - TEIJIN LTD

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 2530039 A2 20121205; EP 2530039 A3 20151014; EP 2530039 B1 20170405**; CN 102807130 A 20121205; CN 102807130 B 20161005; IN 685DE2012 A 20150821; JP 2012250810 A 20121220

DOCDB simple family (application)  
**EP 12156893 A 20120224**; CN 201210075755 A 20120321; IN 685DE2012 A 20120309; JP 2011124660 A 20110602