

Title (en)
Yarn winding apparatus

Title (de)
Garnwicklungsvorrichtung

Title (fr)
Appareil renvideur de fil

Publication
EP 2017212 A3 20120801 (EN)

Application
EP 08009641 A 20080527

Priority
JP 2007188050 A 20070719

Abstract (en)
[origin: EP2017212A2] A yarn winding apparatus according to the present invention quickly and accurately detects that an abnormal winding state such as straight winding is occurring on a winding package. A yarn winding unit 2 winds a yarn 4 unwound from a supplying bobbin 3 around a winding tube 6 while traversing the yarn 4 using a traverse device 5, to form a full package 7. A winding state detecting section 52 compares an actual diameter measured by a package diameter sensor 44 with a predicted diameter calculated by a package diameter predicting section 51 to detect the winding state of the winding package 7. The predicted diameter is calculated in accordance with a reference diameter that is the diameter of the winding package 7 measured by the package diameter sensor 44 before the winding state detecting section 52 detects the winding state. At the time of the start of winding, the reference diameter is updated to the actual diameter measured by the package diameter sensor 44.

IPC 8 full level
B65H 54/28 (2006.01); **B65H 63/08** (2006.01)

CPC (source: EP)
B65H 63/082 (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)
• [AD] JP H1072168 A 19980317 - BEE SHIYURAAFUHORUSUTO & CO & EP 0816277 A2 19980107 - SCHLAFHORST & CO W [DE]
• [A] EP 0415702 A2 19910306 - DU PONT CANADA [CA]

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EP2690043A3

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
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DOCDB simple family (publication)
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