

Title (en)

Automatic winder

Title (de)

Automatischer Wickler

Title (fr)

Enrouleur automatique

Publication

EP 2671833 A3 20141224 (EN)

Application

EP 13164187 A 20130417

Priority

JP 2012131373 A 20120608

Abstract (en)

[origin: EP2671833A2] An automatic winder (100) includes a winding unit (10) that unwinds a yarn from yarn-wound bobbins (YB) mounted on trays (22) and forms a package, a bobbin transporting device (11) that transports the trays (22), a bobbin supplying device (12) that supplies a yarn-wound bobbin (YB) to a tray (22) with no yarn-wound bobbin (YB) mounted thereon from among the trays (22) transported by the bobbin transporting device (11), a bobbin removing device (13) that removes yarn-unwound bobbins (B) from the trays (22) that are transported by the bobbin transporting device (11), and a collection box (40) into which the yarn-unwound bobbins (B) removed by the bobbin removing device (13) and introduced in uniform bobbin tube large/small-end orientation are collected. The bobbin supplying device (12) includes a box mounting member (43) on which the collection box (40) is mounted.

IPC 8 full level

B65H 67/06 (2006.01)

CPC (source: EP)

B65H 67/061 (2013.01); **B65H 67/066** (2013.01); **B65H 67/067** (2013.01); **B65H 67/069** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [A] US 4634066 A 19870106 - MATSUI ISAMU [JP], et al
- [A] US 4676061 A 19870630 - YAMAMOTO YOSHIO [JP]
- [A] EP 0345480 A2 19891213 - MOVIND S A S DI VITALI GIANFRA [IT]

Cited by

CN106276416A; EP3636569A1

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 2671833 A2 20131211; **EP 2671833 A3 20141224**; **EP 2671833 B1 20160330**; CN 103482422 A 20140101; CN 103482422 B 20170613; JP 2013252964 A 20131219

DOCDB simple family (application)

EP 13164187 A 20130417; CN 201310144130 A 20130416; JP 2012131373 A 20120608