

Title (en)

Doffer and yarn winding apparatus including the same

Title (de)

Abnehmer und Garnwickelmaschine damit

Title (fr)

Peigneur et appareil d'enroulement de fils l'incluant

Publication

**EP 2441720 A3 20150722 (EN)**

Application

**EP 11180050 A 20110905**

Priority

JP 2010233731 A 20101018

Abstract (en)

[origin: EP2441720A2] A doffer (60) includes support members (65) and a bobbin guiding cylinder (62). The support members (65) support a package formed by winding a spun yarn on a bobbin. The bobbin guiding cylinder (62) drives the support members (65) to convey a fully wound package supported by the support members (65) from a position (first position) of the package at which the support members (65) receive the package that is fully wound to a position of a package receiving section (84) (second position).

IPC 8 full level

**B65H 67/04** (2006.01); **B65H 54/26** (2006.01); **D01H 9/04** (2006.01); **D01H 9/08** (2006.01)

CPC (source: EP)

**B65H 54/26** (2013.01); **B65H 67/0411** (2013.01); **D01H 9/04** (2013.01); **D01H 9/08** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

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- [XI] JP S6433221 A 19890203 - TORAY ENG CO LTD
- [X] DE 102007036696 A1 20090205 - OERLIKON TEXTILE GMBH & CO KG [DE]
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Cited by

CN108996316A; EP2669229A3; TWI682890B

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 2441720 A2 20120418**; **EP 2441720 A3 20150722**; **EP 2441720 B1 20190424**; CN 102452583 A 20120516; CN 102452583 B 20170301; CN 202400696 U 20120829; JP 2012086923 A 20120510

DOCDB simple family (application)

**EP 11180050 A 20110905**; CN 201110289662 A 20110920; CN 201120361644 U 20110920; JP 2010233731 A 20101018