

Title (en)

Winding unit and yarn winding machine equipped with the same

Title (de)

Wickeleinheit und damit ausgestattete Garnwickelmaschine

Title (fr)

Unité d'enroulement et machine d'enroulement de fils équipée de celle-ci

Publication

EP 2388226 A2 20111123 (EN)

Application

EP 11165313 A 20110509

Priority

JP 2010113588 A 20100517

Abstract (en)

The present invention aims to provide a winding unit having a configuration in which a yarn feeding bobbin is replaced while suppressing rise in manufacturing cost and lowering in quality of a package. As means for achieving such an object, a winder unit (4) of the present invention includes a bobbin holding portion (110), a bobbin supply device (60), a winding section (16), a yarn splicing device (14), a chase portion detection sensor (74), and a determination section (51). The bobbin holding portion (110) holds a yarn feeding bobbin. The bobbin supply device (60) performs a supplying operation of the yarn feeding bobbin to the bobbin holding portion (110). The winding section (16) performs a winding operation of winding a yarn of the yarn feeding bobbin held by the bobbin holding portion (110) to form a package. The yarn splicing device (14) performs a yarn splicing operation of splicing a yarn end of the package and a yarn end of the yarn feeding bobbin when the yarn is cut. The chase portion detection sensor (74) detects presence/absence of the yarn feeding bobbin at the bobbin holding portion (110). The determination section (51) determines whether or not supply of the yarn feeding bobbin is successful based on a detection result of the chase portion detection sensor (74) after the bobbin supply device (60) performs the supplying operation of the yarn feeding bobbin and until the yarn splicing device (14) starts the yarn splicing operation.

IPC 8 full level

B65H 57/18 (2006.01); **B65H 63/00** (2006.01); **B65H 67/02** (2006.01); **B65H 69/06** (2006.01)

CPC (source: EP)

B65H 57/18 (2013.01); **B65H 63/00** (2013.01); **B65H 67/02** (2013.01); **B65H 69/06** (2013.01); **B65H 2701/31** (2013.01)

Citation (applicant)

JP 2009018930 A 20090129 - MURATA MACHINERY LTD

Cited by

CN109179079A

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 2388226 A2 20111123; **EP 2388226 A3 20121114**; **EP 2388226 B1 20130904**; CN 102275774 A 20111214; CN 102275774 B 20150325; JP 2011241033 A 20111201

DOCDB simple family (application)

EP 11165313 A 20110509; CN 201110115810 A 20110505; JP 2010113588 A 20100517