

Title (en)
SPUN YARN WINDING SYSTEM

Title (de)
WICKLUNGSSYSTEM FÜR GESPONNENES GARN

Title (fr)
SYSTÈME D'ENROULEMENT DE FIL FILÉ

Publication
EP 3162748 A1 20170503 (EN)

Application
EP 16196252 A 20161028

Priority
JP 2015213745 A 20151030

Abstract (en)
In a spun yarn winding system, a yarn threading robot is less likely to interfere with an operator or an apparatus which collects packages. Take-up units 3 are lined up in the left-right direction. Each take-up unit 3 is configured to take up yarns Y spun out from a spinning apparatus and form packages by winding the yarns Y into bobbins B. A yarn threading robot 4 is provided above a winding unit 14 of the take-up unit 3, and hangs down from a guide rail 35 extending in the left-right direction over the take-up units 3 and moves in the left-right direction along the guide rail 35. At least when moving along the guide rail 35, the yarn threading robot 4 is positioned above the upper end of a fully-wound package P attached to a bobbin holder 24.

IPC 8 full level
B65H 54/88 (2006.01); **B65H 57/00** (2006.01); **B65H 67/048** (2006.01); **D01D 13/02** (2006.01)

CPC (source: CN EP)
B65H 54/88 (2013.01 - EP); **B65H 57/003** (2013.01 - EP); **B65H 67/048** (2013.01 - EP); **D01D 10/0481** (2013.01 - CN); **D01D 11/00** (2013.01 - CN); **B65H 2701/3132** (2013.01 - EP); **D01D 13/02** (2013.01 - EP)

Citation (applicant)
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Citation (search report)
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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 3162748 A1 20170503; EP 3162748 B1 20190911; CN 106939441 A 20170711; CN 106939441 B 20210921; CN 111876836 A 20201103; CN 111876836 B 20230725; CN 113699605 A 20211126; CN 113699605 B 20240102; CN 113755959 A 20211207; CN 113755959 B 20230418; CN 113789577 A 20211214; CN 113789577 B 20230428; JP 2017082381 A 20170518; JP 2020125581 A 20200820; JP 6763744 B2 20200930; JP 6960501 B2 20211105; TW 201715105 A 20170501; TW I677604 B 20191121

DOCDB simple family (application)
EP 16196252 A 20161028; CN 201610959353 A 20161028; CN 202010743220 A 20161028; CN 202111091263 A 20161028; CN 202111091396 A 20161028; CN 202111091407 A 20161028; JP 2016208544 A 20161025; JP 2020085366 A 20200514; TW 105135106 A 20161028