

Title (en)
Spinning winder

Title (de)
Spulenwickel

Title (fr)
Enrouleur de filature

Publication
EP 2548830 A3 20131113 (EN)

Application
EP 12173797 A 20120627

Priority
JP 2011160825 A 20110722

Abstract (en)
[origin: EP2548830A2] Damage on yarns is restrained while allowing the bending angles of the yarns at distribution guides by which the yarns spun out from a spinning unit are distributed to be large. Yarns 10 serially spun out and supplied from a spinning machine are conveyed to a winding unit below by two godet rollers, and in a winding unit the yarns 10 are distributed by fulcrum guides 13 and then wound onto bobbins attached to a bobbin holder. Each fulcrum guide 13 is a column having a radius of not shorter than 3mm and not longer than 8mm, and the yarn 10 is threaded on the outer circumference of the fulcrum guide 13. By rotating the fulcrum guide 13, the sliding position between the fulcrum guide 13 and the yarn 10 is changed. Furthermore, the movement of the yarn 10 threaded on the fulcrum guide 13 is restrained in the axial directions of the fulcrum guide 13, because the yarn 10 is arranged to pass through a slit 25a made through a restraining guide 25 which is provided above the fulcrum guide 13.

IPC 8 full level
B65H 54/20 (2006.01); **B65H 57/14** (2006.01); **B65H 67/048** (2006.01)

CPC (source: EP)
B65H 54/20 (2013.01); **B65H 57/14** (2013.01); **B65H 67/048** (2013.01); **B65H 2601/121** (2013.01); **B65H 2701/3132** (2013.01)

Citation (search report)

- [AD] JP 2005534825 A 20051117
- [A] WO 2007085274 A1 20070802 - SAURER GMBH & CO KG [DE], et al
- [A] DE 102009021131 A1 20091203 - OERLIKON TEXTILE GMBH & CO KG [DE]
- [A] DE 102005009342 A1 20060907 - SAURER GMBH & CO KG [DE]

Cited by
WO2022253680A1

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 2548830 A2 20130123; EP 2548830 A3 20131113; EP 2548830 B1 20140813; CN 102888667 A 20130123; CN 102888667 B 20160810; JP 2013023787 A 20130204; JP 5711062 B2 20150430

DOCDB simple family (application)
EP 12173797 A 20120627; CN 201210252497 A 20120720; JP 2011160825 A 20110722