

Title (en)
INTEGRATED DEVICE AND METHOD FOR TRANSPORTING BOBBINS AND TUBES BETWEEN A ROVING FRAME AND A SPINNING FRAME OF A SPINNING LINE

Title (de)
INTEGRIERTE VORRICHTUNG UND VERFAHREN ZUM TRANSPORTIEREN VON SPULEN UND ROHREN ZWISCHEN EINEM FLYER UND EINER SPINNMASCHINE EINER SPINNANLAGE

Title (fr)
DISPOSITIF INTÉGRÉ ET PROCÉDÉ DE TRANSPORT DE BOBINES ET DE TUBES ENTRE UN BANC À BROCHES ET UN MÉTIER À FILER D'UNE LIGNE DE FILAGE

Publication
EP 3224171 B1 20200219 (EN)

Application
EP 15808808 A 20151117

Priority
• IT BS20140196 A 20141125
• IB 2015058893 W 20151117

Abstract (en)
[origin: WO2016083944A1] An integrated device (50) performs the picking of dirty tubes (12) from a secondary transport device (26) of a spinning frame (8) and bobbins (10) from a main transport device (22) of a roving frame (6), the cleaning of the dirty tubes (12) to obtain empty tubes (14), the exchange of the bobbins (10) with the empty tubes (14) and the release of the bobbins (10) to the secondary transport device (26) and of the empty tubes (14) to the main transport device (22). The working method of the spinning line avoids that, between the picking of the dirty tube (12) and the release of the related empty tube (14), said dirty (12) or empty (14) tube is further released.

IPC 8 full level
B65H 67/06 (2006.01); **B65H 73/00** (2006.01); **D01H 9/18** (2006.01)

CPC (source: CN EP)
B65H 73/00 (2013.01 - CN EP); **D01H 9/182** (2013.01 - EP); **B65H 2701/31** (2013.01 - CN EP)

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

DOCDB simple family (publication)
WO 2016083944 A1 20160602; BR 112017011013 A2 20180214; BR 112017011013 B1 20220208; BR 112017011013 B8 20220222; CN 107207180 A 20170926; CN 111675042 A 20200918; CN 111675042 B 20220315; EP 3224171 A1 20171004; EP 3224171 B1 20200219; ES 2791278 T3 20201103; JP 2018503005 A 20180201; JP 6727223 B2 20200722

DOCDB simple family (application)
IB 2015058893 W 20151117; BR 112017011013 A 20151117; CN 201580063974 A 20151117; CN 202010524485 A 20151117; EP 15808808 A 20151117; ES 15808808 T 20151117; JP 2017546060 A 20151117