

Title (en)
YARN JOINING DEVICE AND YARN WINDING DEVICE

Title (de)
GARNVERBINDUNGSVORRICHTUNG UND GARNAUFWICKLUNGSVORRICHTUNG

Title (fr)
DISPOSITIF D'ASSEMBLAGE DE FIL ET DISPOSITIF DE BOBINAGE DE FIL

Publication
EP 3636572 A1 20200415 (EN)

Application
EP 19200720 A 20191001

Priority
JP 2018192286 A 20181011

Abstract (en)
In a yarn joining device (21) configured such that when a yarn (Y1) introduced into a yarn joining space (31a) of a yarn joining member (31) and clamped by a clamp (44) is cut by a cutter (41), the yarn end is sucked from a suction port (32a) of an untwisting pipe (32), a guide member (45) formed with a contacting surface (45a) that bends the yarn (Y1) by coming into contact with the yarn (Y1) between the cutter (41) and the yarn joining member (31) is provided between the cutter (41) and the untwisting pipe (32) in the vertical direction. When viewed from a front-back direction in which the untwisting pipe (32) is opened, at least a part of the contacting surface (45a) is located on an outer side of the suction port (32a) in a left-right direction.

IPC 8 full level
B65H 69/06 (2006.01)

CPC (source: CN EP)
B65H 54/10 (2013.01 - CN); **B65H 54/28** (2013.01 - CN); **B65H 54/30** (2013.01 - CN); **B65H 54/52** (2013.01 - CN); **B65H 54/70** (2013.01 - CN); **B65H 67/08** (2013.01 - CN); **B65H 69/061** (2013.01 - EP); **B65H 2701/31** (2013.01 - CN); **B65H 2701/319** (2013.01 - EP)

Citation (applicant)
JP H0442173 U 19920409

Citation (search report)
• [XAI] DE 102016221545 A1 20170518 - MURATA MACHINERY LTD [JP]
• [X] DE 102014007978 A1 20141211 - MURATA MACHINERY LTD [JP]
• [A] EP 1118570 A2 20010725 - MURATA MACHINERY LTD [JP]
• [A] US 2002174643 A1 20021128 - HUMML BALDUR [DE]

Cited by
CN111573424A

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)
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DOCDB simple family (publication)
EP 3636572 A1 20200415; **EP 3636572 B1 20220223**; CN 111039074 A 20200421; CN 111039074 B 20220913; JP 2020059583 A 20200416

DOCDB simple family (application)
EP 19200720 A 20191001; CN 201910932394 A 20190929; JP 2018192286 A 20181011