

Title (en)

YARN JOINING DEVICE AND SPINNING MACHINE

Title (de)

GARNVERBINDUNGSVORRICHTUNG UND SPINNMASCHINE

Title (fr)

DISPOSITIF DE RATTACHEMENT DE FIL ET MACHINE À FILER

Publication

EP 3309099 B1 20190515 (EN)

Application

EP 17195655 A 20171010

Priority

JP 2016203578 A 20161017

Abstract (en)

[origin: EP3309099A1] A yarn joining device (31) includes: a first untwisting pipe (41) that catches a first yarn end (Y1a) made in first yarn (Y1) through a first yarn-end inlet (41a) and untwists therein the first yarn end (Y1a) by action of air injected from a first air injection hole (42); a second untwisting pipe (43) that catches a second yarn end (Y2a) made in second yarn (Y2) through a second yarn-end inlet (43a) and untwists therein the second yarn end (Y2a) by action of air injected from a second air injection hole (44); an air injection portion (91, 92) that is capable of injecting air from outside toward the first and the second yarn-end inlets; a yarn joining portion (50) that twists the first yarn end and the second yarn end untwisted; and a movable lever (82) that is capable of advancing and retreating with respect to the first and the second yarn-end inlets. The air injection portion (91, 92) is provided to the movable lever (82).

IPC 8 full level

B65H 69/06 (2006.01)

CPC (source: CN EP)

B65H 69/063 (2013.01 - EP); **D01H 4/02** (2013.01 - CN); **D01H 4/48** (2013.01 - CN); **B65H 2701/31** (2013.01 - 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)

EP 3309099 A1 20180418; **EP 3309099 B1 20190515**; CN 107956010 A 20180424; CN 107956010 B 20210907; JP 2018065629 A 20180426

DOCDB simple family (application)

EP 17195655 A 20171010; CN 201710811073 A 20170911; JP 2016203578 A 20161017