

Title (en)

YARN JOINING DEVICE, SPINNING MACHINE, AND AUTOMATIC WINDER

Title (de)

FADENVERBINDUNGSVORRICHTUNG, SPINNMASCHINE UND AUTOMATISCHER WICKLER

Title (fr)

DISPOSITIF D'ASSEMBLAGE DE FIL, MACHINE DE FILAGE ET ENROULEUR AUTOMATIQUE

Publication

EP 3067306 B1 20181114 (EN)

Application

EP 16155995 A 20160216

Priority

JP 2015046643 A 20150310

Abstract (en)

[origin: EP3067306A1] A yarn joining device includes a first unwinding pipe (38), a second unwinding pipe (39), and a yarn joining section. The first unwinding pipe (38) has a first air blowing hole (45) formed therein for passing air to generate an air current inside thereof that acts on a first yarn and unwinds the first yarn. The second unwinding pipe (39), has a different shape from that of the first unwinding pipe (38), with a second air blowing hole (46 to 49) formed therein for passing air to generate an air current inside thereof that acts on a second yarn and unwinds the second yarn. The yarn joining section joins the first yarn unwound by the first unwinding pipe and the second yarn unwound by the second unwinding pipe.

IPC 8 full level

B65H 69/06 (2006.01)

CPC (source: CN EP)

B65H 69/061 (2013.01 - CN); **B65H 69/063** (2013.01 - EP); **B65H 2406/1132** (2013.01 - CN); **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)

EP 3067306 A1 20160914; **EP 3067306 B1 20181114**; CN 105966995 A 20160928; CN 105966995 B 20190716; JP 2016166067 A 20160915

DOCDB simple family (application)

EP 16155995 A 20160216; CN 201610091224 A 20160218; JP 2015046643 A 20150310