

Title (en)

DRAFTING DEVICE IN SPINNING MACHINE

Title (de)

ENTWURFSVORRICHTUNG IN EINER SPINNMASCHINE

Title (fr)

DISPOSITIF D'ÉTIRAGE DANS UN MÉTIER À FILER

Publication

**EP 3045576 A4 20161005 (EN)**

Application

**EP 14842527 A 20140825**

Priority

- JP 2013186272 A 20130909
- JP 2014072116 W 20140825

Abstract (en)

[origin: EP3045576A1] A draft device for a spinning machine that spins a yarn while changing the blending ratio of two different types of rovings has a middle bottom roller and a middle top roller, a back bottom roller and a back top roller, a middle apron pair, and a back apron pair. The middle apron pair is supplied with a first roving and has a middle bottom apron wrapped around the middle bottom roller and a middle top apron wrapped around the middle top roller. The middle top apron is driven by the middle bottom roller in a state pressed by the middle bottom apron. The back apron pair is supplied with a second roving and has a back bottom apron wrapped around the back bottom roller and a back top apron wrapped around the back top roller. The back apron pair is driven by the back bottom roller in a state pressed by the back bottom apron.

IPC 8 full level

**D01H 5/26** (2006.01); **D01H 5/36** (2006.01); **D02G 3/34** (2006.01)

CPC (source: EP)

**D01H 5/26** (2013.01); **D01H 5/36** (2013.01); **D02G 3/34** (2013.01)

Citation (search report)

- [XD] CN 1587469 A 20050302 - HONGYUAN FRAME CO LTD JIANGSU [CN]
- [X] GB 2034364 A 19800604 - MITSUBISHI RAYON CO
- See also references of WO 2015033811A1

Cited by

EP3696302A1; CN113227475A; US11390968B2; WO2020165143A1; EP3650591A1; IT201800010209A1

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 3045576 A1 20160720; EP 3045576 A4 20161005; EP 3045576 B1 20191002**; BR 112016004432 A2 20170801; BR 112016004432 B1 20211116; CN 105074066 A 20151118; CN 105074066 B 20161123; ES 2756148 T3 20200427; JP 6156503 B2 20170705; JP WO2015033811 A1 20170302; WO 2015033811 A1 20150312

DOCDB simple family (application)

**EP 14842527 A 20140825**; BR 112016004432 A 20140825; CN 201480019063 A 20140825; ES 14842527 T 20140825; JP 2014072116 W 20140825; JP 2015535430 A 20140825