Title (en)

SPINNING STATION OF AN AIR JET SPINNING MACHINE

Title (de)

SPINNSTELLE EINER LUFTSPINNMASCHINE

Title (fr)

POSTE DE FILAGE D'UN MÉTIER À FILER À JET D'AIR

Publication

EP 2895646 B1 20170419 (DE)

Application

EP 13783660 A 20130816

Priority

- CH 16342012 A 20120907
- IB 2013001799 W 20130816

Abstract (en)

[origin: WO2014037775A1] The invention relates to a spinning station (22) of an air jet spinning machine, which is used to produce a yarn (1) from a fiber sliver (2) comprising fibers, wherein the spinning station (22) has a vortex chamber (3) having an inlet opening (4) for the fiber sliver (2), which enters the vortex chamber (3) in a conveying direction during operation of the air jet spinning machine, and the spinning station has a yarn-forming element (5) that extends at least partially into the vortex chamber (3), wherein the spinning station (22) has air nozzles (6) directed into the vortex chamber (3), which air nozzles open into the vortex chamber (3) in the area of a wall (21) surrounding the vortex chamber (3) and by means of which air nozzles air can be introduced into the vortex chamber (3) in a specified direction of rotation in order to give a rotation in said direction of rotation to the fiber sliver (2) in the area of an inlet opening (7) of the yarn-forming element (5), wherein the yarn-forming element (5) has an extraction channel (8), through which the yarn (1) can be extracted from the vortex chamber (3), wherein a guiding assembly (9) for guiding the fiber sliver (2) is arranged in the area of the inlet opening (4) of the vortex chamber (3), and wherein the guiding assembly (9) comprises at least two guiding sections (10) arranged at a distance from each other, the mutual distance of which decreases in said conveying direction at least in some segments. According to the invention, the guiding assembly (9) also has at least one center guiding element (11), which extends at least partially between the guiding sections (10) in a cross-section extending perpendicularly to the longitudinal axis (12) of the extraction channel (8) and causes a deflection of the fibers of the fiber sliver (2) perpendicular to a longitudinal axis (12) of the extraction channel (8).

IPC 8 full level

D01H 1/115 (2006.01)

CPC (source: CN EP US)

D01H 1/115 (2013.01 - CN EP US); **D01H 1/14** (2013.01 - US); **D01H 4/02** (2013.01 - US); **D01H 7/92** (2013.01 - CN EP US)

Citation (examination)

DE 4036119 C2 19940707 - MURATA MACHINERY LTD [JP]

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 2014037775 A1 20140313; CH 706923 A1 20140314; CN 104583478 A 20150429; CN 104583478 B 20170711; EP 2895646 A1 20150722; EP 2895646 B1 20170419; US 2015240393 A1 20150827; US 9670599 B2 20170606

DOCDB simple family (application)

IB 2013001799 W 20130816; CH 16342012 A 20120907; CN 201380046647 A 20130816; EP 13783660 A 20130816; US 201314426570 A 20130816