

Title (en)
SPINNING STATION OF A ROVING MACHINE

Title (de)
SPINNSTELLE EINER VORSPINNMASCHINE

Title (fr)
POSTE DE FILAGE D'UN BANC À BROCHES

Publication
EP 2895647 A2 20150722 (DE)

Application
EP 13803202 A 20130910

Priority
• DE 102012108613 A 20120914
• IB 2013001963 W 20130910

Abstract (en)
[origin: WO2014041412A2] The invention relates to a spinning station of a roving machine for producing a roving (2) from a sliver (3), wherein the spinning station (1) has a vortex chamber (4) having an infeed opening (5) for the sliver (3) and a yarn-forming element (6) extending at least partially into the vortex chamber (4), wherein the spinning station (1) has spinning nozzles (7) directed into the vortex chamber (4), said spinning nozzles (7) opening into the vortex chamber (4) in the region of a wall (8) surrounding the vortex chamber (4) and air being introducible into the vortex chamber (4) in a predefined direction of rotation via said spinning nozzles (7), in order to impart a rotation in said direction of rotation on the sliver (3) fed in a direction of transport (T) in the region of an inlet opening (9) of the yarn-forming element (6), and wherein the yarn-forming element (6) has an offtake channel (10) adjoining the inlet opening (9), it being possible to take off the yarn from the vortex chamber (4) via said offtake channel (10). According to the invention, it is proposed that the wall (8) of the vortex chamber (4), following the infeed opening (5), has a transition section (11), the form of which corresponds to the lateral surface of a truncated cone and the diameter of which increases in said direction of transport (T), wherein the spinning nozzles (7) open into the vortex chamber (4) in the region of the transition section (11) and each have a direction of flow which is oriented in the direction of an outer surface (12) of the wall (8) surrounding the vortex chamber (4).

IPC 8 full level
D01H 1/115 (2006.01); **D01H 5/28** (2006.01)

CPC (source: CN EP US)
D01H 1/115 (2013.01 - CN US); **D01H 5/28** (2013.01 - CN US); **D01H 7/92** (2013.01 - EP US)

Citation (search report)
See references of WO 2014041412A2

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)
DE 102012108613 A1 20140320; CN 104619898 A 20150513; CN 104619898 B 20170606; EP 2895647 A2 20150722; EP 2895647 B1 20210714; US 2015240394 A1 20150827; US 9677197 B2 20170613; WO 2014041412 A2 20140320; WO 2014041412 A3 20140522

DOCDB simple family (application)
DE 102012108613 A 20120914; CN 201380047846 A 20130910; EP 13803202 A 20130910; IB 2013001963 W 20130910; US 201314428112 A 20130910