

Title (en)
Pneumatic spinning device and spinning machine

Title (de)
Druckluftspinnvorrichtung und Spinnmaschine

Title (fr)
Fileuse pneumatique et fileuse

Publication
EP 2369043 A2 20110928 (EN)

Application
EP 11159000 A 20110321

Priority
JP 2010070746 A 20100325

Abstract (en)
A pneumatic spinning device includes a nozzle block (34), a fiber guide section, and a hollow guide shaft (20). The nozzle block (34) is adapted to form a whirling chamber. At least one air injection nozzle (27) is formed in the nozzle block (34) to inject compressed air from a nozzle opening (27a) opening into the whirling chamber to generate a whirling airflow in the whirling chamber. The fiber guide section includes a fiber guide hole connected to the whirling chamber. The hollow guide shaft (20) is structured such that a fiber passage through which the fiber that has been whirled in the whirling chamber passes is formed in an inner portion thereof. In a cross-section cut through a plane passing through an axial line of the hollow guide shaft (20), a portion of a cross-sectional contour of a whirling chamber forming surface (82) located near the fiber guide section is formed as a circular curved section (82a).

IPC 8 full level
D01H 1/115 (2006.01); **D01H 4/02** (2006.01)

CPC (source: CN EP)
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Citation (applicant)
JP 2003193337 A 20030709 - MURATA MACHINERY LTD

Cited by
CN102926054A; CN113439134A; EP3643818A1; IT201800009728A1; US11155939B2

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