

Title (en)
Air-jet spinning device

Title (de)
Luftdüsen Spinnmaschine

Title (fr)
Dispositif de filature à jet d'air

Publication
EP 2009151 B1 20120523 (EN)

Application
EP 08010517 A 20080610

Priority
JP 2007164203 A 20070621

Abstract (en)
[origin: EP2009151A1] A fiber bundle guide surface of an introduction channel 32 is configured to include a first surface 78 ranging from an inlet 70 side of the introduction channel 32 to an outlet 71 of the introduction channel 32, a second surface 79 connected to the first surface 78 at a downstream side of a swirling direction of a swirling airflow and ranging from the inlet 70 side to the outlet 71, and a third surface 80 connected to the second surface 79 at the downstream side of the swirling direction and ranging from the inlet 70 to the outlet 71. Each of an angle between the first surface 78 and the second surface 79 and an angle between the second surface 79 and the third surface 80 is set to be almost right angle. If a fiber bundle fed from a draft device is introduced into the introduction channel 32, the fiber bundle is sharply bent and surely constrained by the introduction member, thereby making it difficult to separate fibers from the fiber bundle and making it possible to reduce fibers causing fiber loss (Fig.3).

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

CPC (source: EP)
D01H 1/115 (2013.01); **D01H 4/02** (2013.01)

Cited by
DE102019100306A1; CN112342648A; EP4335955A1; CN106400225A; EP3859061A1; CN115003868A; WO2021151968A1; EP3680373A1

Designated contracting state (EPC)
CH DE LI

DOCDB simple family (publication)
EP 2009151 A1 20081231; EP 2009151 B1 20120523; JP 2009001935 A 20090108; JP 5162975 B2 20130313

DOCDB simple family (application)
EP 08010517 A 20080610; JP 2007164203 A 20070621