

Title (en)
Open-end spinning device

Title (de)
Offenend-Spinnvorrichtung

Title (fr)
Métier à filer à bout ouvert

Publication
EP 0979888 B1 20030319 (DE)

Application
EP 99107123 A 19990413

Priority
DE 19836066 A 19980810

Abstract (en)
[origin: EP0979888A1] Channel (14) to carry the separated fibers from the sliver to the spinning chamber, in an open end spinner, has walls at the entry section (29) with a coarser surface roughness than the surfaces of the channel walls at the outlet section (30) of the channel. The depth of the surface roughness, in the walls of both channel sections (29, 30), is less than the average single fiber diameter (10 micro m). Preferred Features: The surface roughness of the channel wall at the channel entry section (29) has a depth of ≥ 4 micro m (4-6 micro m). The wall surfaces at the entry section (29) of the fiber feed channel (14) are coated with a nickel dispersion with embedded hard granules (35) of diamonds or silicon carbide. The entry section (29) of the channel (14) is in a fiber guide channel unit (36), in a drilling (37) at the housing (17) for the sliver loosening roller. The wall surfaces of the outlet section (30) of the fiber feed channel (14) have a roughness depth of ≤ 4 micro m (2-3 micro m). The center axis (34) of the outlet section (30) of the fiber feed channel (14) is at an angle (alpha) to the center axis (33) of the entry section (29) of the channel (14). The outlet section (30) of the fiber feed channel (14) is a component part of an exchangeable channel plate adapter (12).

IPC 1-7
D01H 4/38

IPC 8 full level
D01H 4/38 (2006.01)

CPC (source: EP US)
D01H 4/38 (2013.01 - EP US)

Cited by
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Designated contracting state (EPC)
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EP 0979888 A1 20000216; EP 0979888 B1 20030319; CZ 275299 A3 20000216; CZ 298763 B6 20080123; DE 19836066 A1 20000217; DE 59904597 D1 20030424; JP 2000064130 A 20000229; US 6047538 A 20000411

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EP 99107123 A 19990413; CZ 275299 A 19990803; DE 19836066 A 19980810; DE 59904597 T 19990413; JP 22408599 A 19990806; US 36611999 A 19990802