Title (en)

Device for opening a sliver

Title (de)

Vorrichtung zum Auflösen von Faserbändern

Title (fr)

Dispositif pour défibrer une mèche

Publication

Application

## EP 1006223 B1 20030115 (DE)

EP 99119919 A 19991009

Priority

DE 19850518 A 19981103

Abstract (en)

[origin: DE19850518A1] The assembly to loosen fiber slivers into separate fibers, for an open-end spinner, has spiral combs (14) rotating in the opposite direction to the rotation of the loosening roller (8). They mesh together at the fiber loosening zone (11) with a meshing support roller (13) after the sliver clamping point (7), in the direction to the rotation of the loosening roller (8). They mesh together at the fiber loosening zone (11) with a meshing support roller (13) after the sliver clamping point (7), in the direction to the rotation of the loosening roller (8). They mesh together at the fiber loosening zone (11) with a meshing support roller (13) after the sliver clamping point (7), in the direction of the loosening roller (8). They mesh together at the fiber loosening zone (11) with a meshing support roller (13) after the sliver clamping point (7), in the direction of the loosening roller (8). They mesh together at the fiber loosening zone (11) with a meshing support roller (13) after the sliver clamping point (7), in the direction of the loosening roller (8). The attack on the sliver by the combs (14) of the support roller (13) is in the channels formed by the intermediate gap zones between the spirals of the combs (9) of the loosening roller (8). The ratio of the rotary speeds between the loosening (8) and support roller (13). The action of the combs (14) of the support roller (13) is at the center of the channels formed between the windings of the combs (9) at the loosening roller (8). The comb units (9) of the loosening roller (8), using an underpressure of <= 10 mbar and especially 3-5 mbar. The surface speed of the rotating loosening roller (8) is <= 15 m/s and especially 5-10 m/ s. The support roller (13) is driven by a cogwheel gearing, coupled to the sliver loosening roller (8). The spiral combs (14) round the support roller (13) is fitted at a holder (12) which also carries the sliver feed. The loosening (8) and support (13) rollers have positioning markings (19).

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IPC 1-7
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D01H 4/32

IPC 8 full level

D01H 4/16 (2006.01); D01H 4/32 (2006.01)

CPC (source: EP US)

D01H 4/32 (2013.01 - EP US)

Cited by

EP3296435A1; CN107841803A

Designated contracting state (EPC) CH DE IT LI

DOCDB simple family (publication)

DE 19850518 A1 20000504; DE 59904034 D1 20030220; EP 1006223 A1 20000607; EP 1006223 B1 20030115; JP 2000136445 A 20000516; US 6226838 B1 20010508

DOCDB simple family (application)

DE 19850518 Å 19981103; DE 59904034 T 19991009; EP 99119919 A 19991009; JP 31131499 A 19991101; US 42736399 A 19991026