Title (en)

Air-jet spinning machine

Title (de)

Luftdüsen Spinnmaschine

Title (fr)

Machine à filer à jets d'air

Publication

EP 2009150 B2 20180110 (EN)

Application

EP 08010201 A 20080604

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- JP 2007148339 A 20070604
- JP 2007164202 A 20070621

Abstract (en

[origin: EP2009150A1] The present invention provides a spinning machine which can prevent reversed twine fibers in swirling from entwining each other without setting a diameter of a space part of a nozzle block to be an unnecessarily large size. It is assumed that the diameter of a cylindrical space part 43 is T, an inclination angle of an air nozzle 34 with respect to a plane surface orthogonal to an axis direction of the cylindrical space part 43 is J, and a length from a nipping point P at which the twine fibers 46 nipped by the front roller pair 22 are released to a center R of the entrance of a yarn passage hole 39 is L. And, when a relation of T #¥ Lcos A A is assumed, the twine fibers 46 reversed by a swirling airflow almost go around along the periphery wall of the cylindrical space part 43, that is, the inner periphery wall 44 of the nozzle block 33 in being reversed and in a planer view seen from the axis direction of the cylindrical space part 43. Therefore, the twine fibers 46 in swirling can be hardly entwined each other (Fig 2).

IPC 8 full level

D01H 1/115 (2006.01)

CPC (source: EP)

D01H 1/115 (2013.01); D01H 4/02 (2013.01)

Cited by

EP2369044A3; US11155939B2; EP3243941A1; CN107338518A; US10597799B2; WO2011006270A3; WO2011006270A2; US8464510B2

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