

Title (en)

Fiber bundle guiding device in spinning machine, and draft machine of spinning frame

Title (de)

Faserbündel-Führungsvorrichtung einer Spinnmaschine und Streckwerk einer Spinnmaschine

Title (fr)

Guide de faisceau de fibres dans une machine de filature, et un système d'étirage d'une machine de filature

Publication

EP 1734161 A3 20090304 (EN)

Application

EP 06114782 A 20060531

Priority

- JP 2005162202 A 20050602
- JP 2006080670 A 20060323

Abstract (en)

[origin: EP1734161A2] A fiber bundle guiding device (30) is located between a middle bottom roller (13) and a back bottom roller (14). The guiding device (30) guides a fiber bundle (F) moving from an upstream side to a downstream side such that the width of the fiber bundle (F) is reduced. The guiding device (30) includes guiding members (31) and an oscillation portion (32). Each guiding member (31) has a guiding surface (31a) that extends along the moving direction of the fiber bundle (F) to be guided. The oscillation portion (32) vibrates the guiding members (31) to generate a sound pressure for preventing the fiber bundle (F) from contacting the guiding surfaces. Therefore, it is possible to guide a fiber bundle without contacting the fiber bundle, and to prevent deterioration over time of frictional state of the guiding surfaces due to abrasion and collection of foreign matter (Fig. 1B).

IPC 8 full level

D01H 5/72 (2006.01)

CPC (source: EP)

D01H 5/72 (2013.01)

Citation (search report)

- [A] AT 391896 B 19901210 - FEHRER ERNST [AT]
- [A] JP H01298229 A 19891201 - NIHON METAL GASKET
- [T] JP 2008115491 A 20080522 - TOYOTA IND CORP

Cited by

EP2009152A1; EP2006427A3; DE102015009500A1; EP2045377A1; WO2017012693A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

EP 1734161 A2 20061220; EP 1734161 A3 20090304; EP 1734161 B1 20100505; DE 602006014062 D1 20100617; ES 2347065 T3 20101025; JP 2007009391 A 20070118; JP 4626548 B2 20110209

DOCDB simple family (application)

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