

Title (en)

Fiber bundle concentrating apparatus for spinning machine

Title (de)

Vorrichtung zum Konzentrieren von Faserbündeln für eine Spinnmaschine

Title (fr)

Appareil de concentration faisceaux de fibres pour machine de filature

Publication

EP 2006427 A3 20081231 (EN)

Application

EP 08157271 A 20080530

Priority

JP 2007147176 A 20070601

Abstract (en)

[origin: EP2006427A2] A fiber bundle concentrating apparatus includes a guide member (31) having a pair of guide surfaces (35a) which face each other and guide a fiber bundle so that the width of the fiber bundle is narrowed, and an excitation device (32) for vibrating the guide member to generate sound pressure. The guide member includes a pair of guide portions (35) which are placed to face each other, so that the guide surfaces are formed. Each guide portion has a straight portion (35b) and a tapered portion, which are made continuous by a connection portion. The straight portions are formed so that the distance between the two guide surfaces is constant, and the tapered portions are formed so that the distance between the two guide surfaces gradually becomes greater toward a direction opposite to the advancing direction of the fiber bundle. The straight portions (35b) form an outlet (35d) through which the fiber bundle is fed out from the guide member. The shape of the guide portions is set so that when the guide member is vibrated at a predetermined frequency by the excitation device, the outlet (35d) and the connection portions (35e) are located in locations different from the nodes of vibration.

IPC 8 full level

D01H 5/72 (2006.01)

CPC (source: EP)

D01H 5/72 (2013.01)

Citation (search report)

- [XD] EP 1734161 A2 20061220 - TOYOTA JIDOSHOKKI KK [JP]
- [E] CH 697457 B1 20081031 - HOLDING FUER INDUSTRIEBETEILIGUNGEN AG [CH]

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EP2045377A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2006427 A2 20081224; EP 2006427 A3 20081231; CN 101314875 A 20081203; JP 2008297676 A 20081211

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