

Title (en)  
APPARATUS FOR THE CONTINUOUS MASS CONTROL OF A FIBRE RIBBON

Publication  
**EP 0192835 B1 19890426 (DE)**

Application  
**EP 85115578 A 19851207**

Priority  
CH 71985 A 19850215

Abstract (en)  
[origin: US4646387A] An arrangement for continuously determining the density of an elongated strip-shaped web of fiber sliver in the course of a spinning process in order to generate control signals for use in controlling the operation of machine elements operative for equalizing the distribution of the fiber sliver includes two of stepped rollers which together delimit, at a their nip region, a confining space for the passage of the fiber sliver web therethrough. One of the rollers is mounted on a support for rotation about a stationary axis and is driven in rotation, while the other roller is mounted on the support for free rotation about another axis which is parallel to the stationary axis and defines an imaginary plane therewith, as well as for movement along the imaginary plane against a spring force away from the one roller, so that the fiber sliver is compressed and moves the other roller to a greater or lesser degree away from the one roller as it passes through the confining space, depending on its density. A contactless proximity sensing element is arranged along the imaginary plane and has a sensing surface which faces a portion of the peripheral surface of the other roller so as to detect the extent of displacement of the other roller relative to the one roller and issue an electric signal representative of the detected value.

IPC 1-7  
**D01G 23/06; D01H 5/38**

IPC 8 full level  
**G01N 33/36** (2006.01); **D01G 23/06** (2006.01); **D01H 5/32** (2006.01); **D01H 5/38** (2006.01); **D01H 13/22** (2006.01)

CPC (source: EP US)  
**D01G 23/06** (2013.01 - EP US); **D01H 5/38** (2013.01 - EP US); **D01H 13/22** (2013.01 - EP US)

Cited by  
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Designated contracting state (EPC)  
CH DE FR GB IT LI

DOCDB simple family (publication)  
**EP 0192835 A1 19860903; EP 0192835 B1 19890426**; DE 3569760 D1 19890601; IN 166675 B 19900630; JP H07119756 B2 19951220; JP S61187658 A 19860821; US 4646387 A 19870303

DOCDB simple family (application)  
**EP 85115578 A 19851207**; DE 3569760 T 19851207; IN 1010MA1985 A 19851217; JP 2805786 A 19860213; US 82981186 A 19860214