

Title (en)

METHOD AND APPLIANCE FOR THE EQUALIZATION OF THE FIBRE WEB DENSITY AT THE ENTRANCE OF A TEXTILE MACHINE

Publication

EP 0275471 B1 19910424 (DE)

Application

EP 87118415 A 19871211

Priority

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Abstract (en)

[origin: US4860406A] A fiber infeed device supplies fiber material to a textile machine, such as a card, and comprises a driven rotatable feed roll and feed plate. This roll is, however, spatially fixed, whereas the feed plate is pivotable but physically immobile during detection of the thickness and thickness variations of the infed fiber material. The feed plate can be pivoted into an operating position against a stop during throughpass of the fiber material. A substantially invariable size nipping zone is thus formed between the driven rotatable feed roll and the stationary feed plate in which a property of the throughpassing fiber material representative of its instantaneous thickness and thus variations thereof can be detected. By positionally fixing the feed plate, for instance, different forces are applied thereto in the nipping zone where the fiber material is compacted. The arising variable forces enable ascertaining thickness variations of the infed fiber material. A further aspect contemplates deriving from the variable forces control signals delivered to a control device for comparison with a predeterminate reference value signal to produce output signals for controlling the rotational speed of the feed roll and thus compensating thickness variations of the infed fiber material.

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D01G 23/06

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

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