

Title (en)

A DEVICE FOR MEASURING HEIGHT OF REVOLVING FLAT WIRE ON CARD OF A CARDING MACHINE

Title (de)

VORRICHTUNG ZUR MESSUNG DER HÖHE EINES DRAHTS EINES WANDERDECKELS EINER KARDE

Title (fr)

DISPOSITIF DE MESURE DE HAUTEUR DE GARNITURE D'UN CHAPEAU TOURNANT D'UNE MACHINE À CARDER

Publication

EP 3168335 B1 20210818 (EN)

Application

EP 16198056 A 20161109

Priority

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Abstract (en)

[origin: EP3168335A1] A device for measuring height of revolving flat wire on card comprises a support mechanism has two supporting bracket (15, 16) fitted on right and left side bends of a carding machine, a guide track (8) parallel to the revolving flat of carding machine is supporting a carriage (10) which is moved along the length of flat tops. The carriage (10) supporting a dial indicator (9) has a support bracket or stem (9c) supporting an anvil (9d) which presses on the tops of wire points and reading is shown in dial indicator. The carriage and dial indicator is moved up and down by precision slide and reading is set to zero when ends of flat tops is adjusted to same value. Further carriage measures the height at five points by sensor. The recorded reading is transmitted to a processor for analysis and storage and the exact amount of grinding cutting the flat tops is fed to the motor by precision feeding system. The carriage has differential speed while moving from one end to other end and a sensor is provided at each end of guide track by which reversal movement is controlled. Further carriage supporting a motor holding bracket (21) to mount a motor either with grinding or cleaning wheel. Exact amount of grinding cut is provided by means of rotation of cam controlled by the processor. Alternatively, the precision feeding system bracket 29 on which guide 33 is mounted whereby guide slide 31 is being moved on guide 33 by ball screw arrangement driven by a belt drive through a servo or stepper motor

IPC 8 full level

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CPC (source: EP)

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