

Title (en)

Device and metod for optimizing control values of a spinning mill machine

Title (de)

Vorrichtung zum Optimieren der Regulierungseinstellung einer Spinnereimaschine sowie entsprechendes Verfahren

Title (fr)

Appareil et procédé pour optimaliser des valeurs de réglage d'une machine de filature

Publication

EP 1350870 B1 20050720 (DE)

Application

EP 03007095 A 20030328

Priority

DE 10214649 A 20020402

Abstract (en)

[origin: EP1350870A2] The equipment includes a controlled drawing section (1), and a carding- or comb machine fed continuously with fibrous bands (2). A sensor (3) ahead of the drawing section, measures band thickness. An exit sensor (30) measures thickness of the resulting fibrous band (2') in a first drawing operation. Measurements are also taken in a second defined drawing operation which is not normally used. A computer (14, 14') compares values. The control unit (10) coordinates and optimizes adjustments with machine and/or fiber characteristics. The first drawing section is used for normal high delivery speed, fibrous band production. In the second drawing section operation, a test may be performed to establish the control magnitude for drawing. Simulated voltage signals may be imposed on the controller to drive (13) loop, corresponding with variations in band thickness measured at the entry sensor. Further optimization features are elaborated. An Independent claim is included for the corresponding control optimization method.

IPC 1-7

D01H 5/42; **D01H 13/32**

IPC 8 full level

D01H 5/42 (2006.01); **D01H 13/32** (2006.01)

CPC (source: EP US)

D01H 5/42 (2013.01 - EP US); **D01H 13/32** (2013.01 - EP US)

Cited by

CN114637258A

Designated contracting state (EPC)

CH DE IT LI

DOCDB simple family (publication)

EP 1350870 A2 20031008; **EP 1350870 A3 20040128**; **EP 1350870 B1 20050720**; CN 100529210 C 20090819; CN 1448558 A 20031015; DE 10214649 A1 20031016; DE 50300784 D1 20050825; US 2004025303 A1 20040212; US 6874204 B2 20050405

DOCDB simple family (application)

EP 03007095 A 20030328; CN 03107722 A 20030402; DE 10214649 A 20020402; DE 50300784 T 20030328; US 40381903 A 20030331