

Title (en)
Electro-pneumatic device for regulating the tension of threads or ribbons

Title (de)
Elektropneumatische Vorrichtung zur Fadenspannungsregulierung

Title (fr)
Dispositif électro-pneumatique pour la régulation de tension des fils et rubans

Publication
EP 1319621 A1 20030618 (EN)

Application
EP 01830758 A 20011212

Priority
EP 01830758 A 20011212

Abstract (en)
An electro-pneumatic device for regulating the tension of travelling threads or ribbons being absorbed by a weaving and/or treating machine, comprises at least a sensor (1c) of the tension of at least a thread or ribbon generating an electronic signal representative of the sensed tension, a control circuitry generating a control signal in function of the magnitude of the electric signal and of a programmed reference value, at least a pneumatic brake (1a) composed of a fixed jaw (3) and a mobile jaw (4) functionally facing each other defining a separation gap through which the thread or ribbon travels and a bellows (5) sustaining the mobile jaw communicating with a duct (9) of compressed air at an adjustable pressure; electrically operated valves (6,7) for injecting compressed air in the duct (9) to increase pressure or to reduce pressure; the control signal commanding the valves (6,7) for regulating the tension of the travelling thread or ribbon downstream of the pneumatic brake (1a). <IMAGE>

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B65H 59/22

IPC 8 full level
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CPC (source: EP)
B65H 59/24 (2013.01); **B65H 2555/11** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)
• [A] GB 1392817 A 19750430 - ENGLISH ELECTRIC CO LTD
• [A] US 2610813 A 19520916 - CAMPBELL PAUL J
• [A] EP 0285203 A1 19881005 - SAVIO SPA [IT]

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