

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>

IPC 1-7  
**B65H 59/22**

IPC 8 full level  
**B65H 59/24** (2006.01)

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]

Cited by  
CN115537985A

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1319621 A1 20030618**

DOCDB simple family (application)  
**EP 01830758 A 20011212**