

Title (en)

A tension-sensing device for the thread of weft feeders in textile machines

Title (de)

Fadenspannungserfassungsvorrichtung für den Faden einer Fadenliefervorrichtung in Textilmaschinen

Title (fr)

Dispositif de détection de tension pour le fil d'un fournisseur de trame dans une machine textile

Publication

**EP 1333115 B1 20071024 (EN)**

Application

**EP 03001430 A 20030122**

Priority

IT TO20020089 A 20020201

Abstract (en)

[origin: EP1333115A2] A device for sensing the mechanical tension of the thread (F) and for converting it into electrical signals for driving modulated braking means (17) in weft feeders (10) for textile machines comprises a thread-guiding bush (19) crossed by the thread that unwinds from the drum (11) of the feeder (10) and means (24-25) for sensing and converting the mechanical tension that the thread transmits to the bush. According to the invention, the thread-guiding bush (19) is rigidly coupled to one of the rigid elements of a suspension frame (20) so as to be an integral part thereof, and the frame comprises at least two rigid frame elements (19a-21) and at least two elastically deformable elements (22-23), which are mutually and rigidly connected to each other according to a configuration shaped substantially like an elastically deformable quadrilateral. <IMAGE>

IPC 8 full level

**D03D 47/34** (2006.01); **B65H 51/22** (2006.01); **B65H 59/26** (2006.01); **B65H 59/40** (2006.01); **D03D 47/36** (2006.01)

CPC (source: EP)

**B65H 59/40** (2013.01); **D03D 47/34** (2013.01); **D03D 47/364** (2013.01); **D03D 47/366** (2013.01); **B65H 2553/21** (2013.01); **B65H 2701/31** (2013.01)

Designated contracting state (EPC)

BE CH DE LI SE

DOCDB simple family (publication)

**EP 1333115 A2 20030806**; **EP 1333115 A3 20040102**; **EP 1333115 B1 20071024**; DE 60316999 D1 20071206; DE 60316999 T2 20080731; IT TO20020089 A0 20020201; IT TO20020089 A1 20030801

DOCDB simple family (application)

**EP 03001430 A 20030122**; DE 60316999 T 20030122; IT TO20020089 A 20020201