

Title (en)
Modulated thread braking device for weft feeders

Title (de)
Modulierte Fadenbremse für eine Schussfadenliefervorrichtung

Title (fr)
Frein de fil module pour un fournisseur de trame

Publication
EP 0536088 B1 19960327 (EN)

Application
EP 92830487 A 19920915

Priority
IT TO910713 A 19910920

Abstract (en)
[origin: EP0536088A1] The device comprises a braking body which has a continuous circular extension, typically a truncated-cone body (12), which is supported by elastic means (13) frontally and coaxially to the drum (T) of the feeder (10) and is actuated by said means (13) into elastic contact engagement with its larger cross-section against said drum along a tangency circumference (C1) of the drum which is slightly smaller than the maximum one. The thread (F) runs between said drum (T) and said braking body (12) along an inclined path which extends between the tangency circumference (C1) of the braking body with respect to the drum and the smaller cross-section of the braking body. The braking body (12) has a cylindrical portion (120) which is rigidly coupled thereto at its smaller cross-section, extends into the annular gap of the skirt (18) of a permanent magnet (19) and is provided with a coil (20) which is supplied with an energization current (I) which is modulated in accordance with the variations in the mechanical tension of the thread; means (21-23 and 26-28) being provided for detecting the mechanical tension of the thread and for converting said mechanical tension into a corresponding electrical signal (t) used to modulate said energization current. <IMAGE>

IPC 1-7
D03D 1/00; **D03D 47/34**

IPC 8 full level
B65H 51/22 (2006.01); **D03D 47/34** (2006.01); **D03D 47/36** (2006.01)

CPC (source: EP)
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EP2878722A1; EP2878721A1; EP1512781A3; US5778943A; US2013168480A1; US9353468B2; EP1333115A3; US5678779A; US6095449A; CN104674439A; DE102013113115B4; US5553641A; EP0707102A3; EP0884263A1; US6095199A; EP0816275A3; EP0622485A1; US5398732A; US5673729A; TR27557A; EP2031106A1; US7896279B2; US2013167968A1; US9303338B2; EP1724384A1; US5582214A; CN104670977A; DE102013113122B4; EP0652312A1; DE102015118027B3; CN107055208A; DE102016117506B3; EP3296242A3; CN107826874A; WO9734035A1; DE102013113115A1; DE102013113122A1; US6257516B1; US8086342B2; DE102014118743A1; TWI568901B; WO03048016A1; WO9520700A3; WO9737069A1; WO9420402A1; EP3159442A1; EP3296242A2; TWI471468B; KR100293647B1

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