

Title (en)

Device for the positive modulated braking of thread for weft feeders.

Title (de)

Positiv modulierte Fadenbremse für Schussfadensliefer Vorrichtungen.

Title (fr)

Frein de fil modulé positivement pour fournisseurs de trame.

Publication

EP 0652312 A1 19950510 (EN)

Application

EP 94117189 A 19941031

Priority

IT TO930828 A 19931105

Abstract (en)

The device comprises a frustum-shaped braking body (12) that has a continuous circular shape and is supported in front of, and coaxially to, the drum (T) of the feeder (10) in order to engage the thread (F) that runs between the braking body and the drum. The braking body (12) is subjected to the electrodynamic action produced by a modulated energization current (I) that circulates in an energization coil (17) that is rigidly coupled to the braking body and interacts with the field of a permanent magnet. The energization coil (17) is arranged on the frustum-shaped braking body (12) at the region of tangent contact with the drum (T), and the magnetic interaction field is produced by an annular magnet (18) which is substantially toroidal and is arranged so as to face the coil (17) at the outer face or at the inner face of the frustum-shaped braking body (12). <IMAGE>

IPC 1-7

D03D 47/34; **B65H 51/22**

IPC 8 full level

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

CPC (source: EP)

D03D 47/34 (2013.01); **D03D 47/366** (2013.01); **B65H 2555/13** (2013.01)

Citation (search report)

- [A] EP 0536088 A1 19930407 - LGL ELECTRONICS SPA [IT]
- [A] EP 0246182 A1 19871119 - SULZER AG [CH]
- [A] WO 9114032 A1 19910919 - IRO AB [SE]
- [A] EP 0049897 A1 19820421 - ROY ELECTROTEX SPA [IT]
- [AD] EP 0534263 A1 19930331 - LGL ELECTRONICS SPA [IT]

Cited by

EP0826619A1; EP0867390A3; EP1059375A1; CN1063242C; CN103946138A; CN108603315A; US6095449A; DE19839272B4; EP0707102A3; EP0884263A1; US6095199A; US6006794A; CN1060237C; DE102016117506B3; EP3296242A3; US9598261B2; US7896279B2; US6257516B1; WO9734035A1; WO2006045410A1; WO9737069A1; EP0707102A2; US9475670B2; US9527694B2; US9562308B2; US9540209B2; EP3296242A2; WO2013072736A1; WO2017138857A1; WO9712084A1

Designated contracting state (EPC)

DE SE

DOCDB simple family (publication)

EP 0652312 A1 19950510; **EP 0652312 B1 19980923**; DE 69413496 D1 19981029; DE 69413496 T2 19990610; IT 1261331 B 19960514; IT TO930828 A0 19931105; IT TO930828 A1 19950505

DOCDB simple family (application)

EP 94117189 A 19941031; DE 69413496 T 19941031; IT TO930828 A 19931105