

Title (en)  
Modulated weft thread braking device for textile machines

Title (de)  
Modulierte Schussfadenbremse für Textilmaschinen

Title (fr)  
Frein de fil de trame modulé pour machines textiles

Publication  
**EP 0942083 A2 19990915 (EN)**

Application  
**EP 99103942 A 19990308**

Priority  
IT TO980207 A 19980312

Abstract (en)  
A device (10) for the modulated braking of a weft thread, comprising a set of three fixed thread guiding eyelets (13,14,15) which trace a straight path of the thread through the device and at least one actuated braking element (27) adapted to engage the thread in the spaces between the thread guiding eyelets in order to deflect its path for braking. The braking element is actuated by a movable yoke (19) which is subjected to the interacting actions of a magnetic field ( PHI ) and of a current (I) which circulates in at least one excitation coil (21), and the movable yoke actuates a first oscillating lever (24) to which the braking element is rigidly coupled, the braking element being constituted by a second oscillating lever (27) which is U-shaped and is suitable to straddle the central thread guiding eyelet (14) in order to engage the thread (F) that slides within the eyelets, deflecting its path in the free portions that lie between the central eyelet (14) and the end eyelets (13,15). <IMAGE>

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

IPC 8 full level  
**B65H 59/26** (2006.01); **D03D 47/34** (2006.01)

CPC (source: EP)  
**B65H 59/26** (2013.01); **D03D 47/34** (2013.01); **B65H 2555/13** (2013.01); **B65H 2701/31** (2013.01)

Cited by  
US6224009B1; EP0972734A1

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**EP 0942083 A2 19990915; EP 0942083 A3 19991215; IT TO980207 A1 19990912**

DOCDB simple family (application)  
**EP 99103942 A 19990308; IT TO980207 A 19980312**