

Title (en)  
Method for supporting a weft guide element

Title (de)  
Verfahren zur Abstützung eines Schussfadenführungselements

Title (fr)  
Procédé de support d'un élément de guidage de la trame

Publication  
**EP 1777330 A1 20070425 (DE)**

Application  
**EP 05021549 A 20051001**

Priority  
EP 05021549 A 20051001

Abstract (en)  
A projectile shuttle (12) containing permanent magnets is moved through the shed over electrically conducting guide bars (16, 17) so that a repelling force is induced that balances gravity. Alternatively the conductors can be placed in the shuttle and the guide bars are magnetic. The magnetic forces are arranged to also provide a centralizing action on the shuttle. The induced current in the guide bars (16, 17) can be augmented by rotating them with a motor (20) and drive disk (19). Independent claims are included for the following: (1) A loom equipped with the required magnetic and electrically conducting elements, with moving guide bars to provide a V-shaped guide configuration (18); (2) A shuttle projecting device for such a loom, using a compressed air cylinder and placed at each end of the shuttle path, with a piston rod preferably lighter than 20 g.

IPC 8 full level  
**D03D 47/27** (2006.01); **D03D 47/24** (2006.01); **D03D 47/38** (2006.01); **D03D 49/42** (2006.01)

CPC (source: EP)  
**D03D 47/24** (2013.01); **D03D 47/277** (2013.01); **D03D 49/42** (2013.01); **D03D 49/44** (2013.01)

Citation (search report)

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Designated contracting state (EPC)  
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DOCDB simple family (application)  
**EP 05021549 A 20051001**; CN 200680036585 A 20060929; CN 200810137853 A 20060929; EP 06805955 A 20060929; EP 08010050 A 20060929; EP 2006009474 W 20060929