

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)

- [X] EP 0759484 A1 19970226 - ICBT DIEDERICHSA [FR]
- [X] US 5107903 A 19920428 - CINEL LUCIANO [IT]
- [X] EP 0233141 A1 19870819 - SULZER AG [CH]
- [X] DE 10154940 A1 20030605 - DORNIER GMBH LINDAUER [DE]
- [A] DE 1281966 B 19681031 - SULZER AG
- [A] US 3902535 A 19750902 - JUSKO JOSEF, et al
- [A] US 2005145288 A1 20050707 - LIUE YUNG-HO [TW]
- [A] GB 2020706 A 19791121 - VYZK VYVOJOVY USTAV VSEOBE
- [X] US 4082118 A 19780404 - NIMS PHILIP A
- [X] US 4602660 A 19860729 - ALM PEKKA F [SE]
- [X] GB 1148253 A 19690410 - HERMANN WANGNER K G [DE]
- [X] DE 600615 C 19340727 - WALTER SCHAEFER
- [X] GB 888485 A 19620131 - HELMUT MULLER

Cited by
WO2010084075A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1777330 A1 20070425; CN 101331254 A 20081224; CN 101338471 A 20090107; EP 1943378 A2 20080716; EP 1972705 A1 20080924; WO 2007039244 A2 20070412; WO 2007039244 A3 20071011

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