

Title (en)
PRE-TENSIONING DEVICE FOR HEALDS

Title (de)
VORSPANNEINRICHTUNG FÜR WEBLITZEN

Title (fr)
DISPOSITIF DE PRETENSION POUR LISSES DE HARNAIS

Publication
EP 1590516 A1 20051102 (DE)

Application
EP 04737241 A 20040116

Priority
• EP 2004000276 W 20040116
• DE 10305016 A 20030207

Abstract (en)
[origin: WO2004072341A1] In order to displace a heald in a Jacquard-weaving machine, a heald spring is used for producing a tension force acting on the heald. For this purpose, the inventive device comprises a pneumatic cylinder provided with a piston which is arranged therein in such a way that it is movable at reduced friction. A strand connects said piston to the heald, thereby forming in a certain way a driven piston rod. The tension force is produced by a surface or pressure difference between two faces of the piston, thereby making it possible to carry out very fast positioning movements due to the low weight of the piston and connection means (2), thereby forming shedding in a very fast manner and producing a high operation speed for the weaving machine.

IPC 1-7
D03C 3/44

IPC 8 full level
D03C 3/44 (2006.01)

CPC (source: EP)
D03C 3/44 (2013.01)

Citation (search report)
See references of WO 2004072341A1

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

DOCDB simple family (publication)
WO 2004072341 A1 20040826; CN 1748051 A 20060315; CN 1748051 B 20100929; DE 10305016 A1 20040916; DE 10305016 B4 20070201; DE 502004009748 D1 20090827; EP 1590516 A1 20051102; EP 1590516 B1 20090715; TW 200424379 A 20041116; TW I248484 B 20060201

DOCDB simple family (application)
EP 2004000276 W 20040116; CN 200480003791 A 20040116; DE 10305016 A 20030207; DE 502004009748 T 20040116; EP 04737241 A 20040116; TW 93102703 A 20040206