

Title (en)

Method for keeping clean the return springs of a shedding mechanism on looms and shedding mechanism

Title (de)

Verfahren zur Reinhaltung der Rückzugfedern an einer Fachbildeeinrichtung für Webmaschinen und Fachbildeeinrichtung

Title (fr)

Procédé pour tenir propre les ressorts de rappel d'un dispositif de formation de la foule pour métiers à tisser ainsi que dispositif de formation de la foule

Publication

EP 1059373 A1 20001213 (DE)

Application

EP 00110588 A 20000518

Priority

CH 100999 A 19990530

Abstract (en)

To keep the springs clean at a loom harness, to form the shed, a compressed air flow is directed at the return springs to prevent a build-up of dust and fiber debris on them. The draw springs are directly or indirectly at a compressed air channel at the lowering frame, connected to a compressed air supply. The compressed air stream is continuous at a constant pressure level and/or a pressure control compensates for air flow leakages. An Independent claim is included for a harness spring cleaning assembly where the harness springs (9) are directly or indirectly in the air flow path of compressed air from a compressed air channel (12) at the lowering frame (11), linked to a compressed air supply. The air flows at the return springs prevent a build-up of dust or fiber debris on them Preferred Features: The compressed air channel (12) at the lowering frame (11) is defined by the upper seal and spring system (13) and the base (10) of the lowering frame (11). The base (14) of the compressed air channel can be raised and lowered, to alter the pressure of the compressed air flow by changing the cross section of the channel (12). The draw springs (9) are tightly against the flow, directly or indirectly at the base (10) of the lowering frame (11), as part of the compressed air channel (12), or there is an intermediate tube to hold the springs directly or indirectly at the base (10) of the lowering frame (11).

Abstract (de)

Die Fachbildeeinrichtung für Webmaschinen, deren in Litzen geführte Kettfäden zwischen einer Oberfachstellung und einer Unterfachstellung hin- und herbewegbar sind, wobei für die jeweilige Rückstellung der Litzen in die Unterfachstellung an jeder Litze eine Zugfeder angreift, die an einem Niederzugboden oder an Niederzugstäben eines Niederzugrahmens befestigt sind, zeichnet sich erfindungsgemäss dadurch aus, dass die Zugfedern (9) direkt oder indirekt mit einem, mit einer Druckluftquelle verbindbaren Druckluftkanal (12) am Niederzugrahmen (11) in Strömungsverbindung stehen zur Erzeugung eines Luftströmungsdruckes in den Rückzugfedern zur Verhinderung von Staubbieniederschlag und Flusenbildung an diesen. <IMAGE>

IPC 1-7

D03C 3/44; **D03J 1/00**

IPC 8 full level

D03C 3/44 (2006.01); **D03J 1/00** (2006.01)

CPC (source: EP US)

D03C 3/44 (2013.01 - EP US); **D03J 1/002** (2013.01 - EP US)

Citation (search report)

- [A] EP 0177385 A1 19860409 - MAYOLLE JOSEPH SA ETS [FR]
- [A] EP 0046728 A1 19820303 - GESSNER AG [CH]
- [A] FR 2537167 A1 19840608 - MAYOLLE ETS JOSEPH [FR]
- [A] FR 2487867 A1 19820205 - VERDOL SA [FR]
- [A] CH 651330 A5 19850913 - WTZ BAUMWOLLIND
- [A] EP 0596571 A1 19940511 - STARTES JACQUARD SRL [IT]

Cited by

EP1270779A1; FR2825723A1; CN1308518C; US6769458B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1059373 A1 20001213; **EP 1059373 B1 20021113**; AT E227786 T1 20021115; DE 50000745 D1 20021219; US 6289937 B1 20010918

DOCDB simple family (application)

EP 00110588 A 20000518; AT 00110588 T 20000518; DE 50000745 T 20000518; US 58083500 A 20000530