

## Title (en)

Harness cord fixing method, shedding mechanism and weaving loom

## Title (de)

Verfahren zum Befestigen einer Harnischkordel, Fachbildungsvorrichtung und Webmaschine

## Title (fr)

Procédé de montage d'un élément funiculaire, dispositif de la foule et métier à tisser

## Publication

**EP 0933456 B1 20010725 (FR)**

## Application

**EP 98420238 A 19981217**

## Priority

FR 9716739 A 19971224

## Abstract (en)

[origin: FR2772796A1] To assemble a loom harness cord unit, at least one end (3a) of the cord (3) is attached to a pulley wheel (2) which is powered by the rotor (6,7) of an electromotor (1). A release mounting secures the cord to the actuator assembly. The end (3a) of the cord (3) is attached in a release fitting to one section of the mounting, which is secured in a release locking action to a fixed section at the motor rotor (6,7). An Independent claim is included for a mechanism to operate the loom harness cords, where an end (3a) of the harness cord (3) is secured to the pulley wheel (2) in a release mounting. The pulley wheel (2) is rotated by the rotor (6,7) of an electromotor (1). A section of the pulley wheel (2) has an accommodation for the cord end (3a), and a second pulley wheel section is bonded to the rotor (6,7). The two pulley wheel sections are locked together, in a release fitting, with an elastic lock at the fixed section to secure the removable first section. The lock between the pulley wheel sections can be eased, to give an adjusted relative position between them. The first pulley wheel section forms the pulley flange. Both ends of the cord can be attached to different pulley wheel sections, so that one exerts a cord winding action to give cord tension, while the other gives a cord unwinding action. Or both ends of the cord are attached to a common winding zone. The cord has one stretch for the warp position, and the other stretch crosses the warps between the winding and unwinding pulley wheel sections. The pulley wheel (2) is keyed to the rotor (7) of the motor (1) by an adhesive, wedges or a force fit. The pulley has a spiral groove, to guide the cord during winding. The pulley wheel sections are aligned by the polarities of magnetic units (4-6) of the motor (1), in a regular or irregular distribution.

## IPC 1-7

**D03C 3/20**; **D03C 13/00**

## IPC 8 full level

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## Cited by

EP2520698A1; EP2666893A1; CN104120533A; FR2990958A1; CN103422214A; DE202011110427U1

## Designated contracting state (EPC)

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**FR 2772796 A1 19990625**; **FR 2772796 B1 20000128**; BR 9805699 A 20000111; CN 1083906 C 20020501; CN 1221821 A 19990707; DE 69801208 D1 20010830; DE 69801208 T2 20020502; EP 0933456 A1 19990804; EP 0933456 B1 20010725; ES 2159171 T3 20010916; JP 4230033 B2 20090225; JP H11241246 A 19990907; KR 100571877 B1 20061130; KR 19990063264 A 19990726; PT 933456 E 20020130; TR 199802688 A1 19990721; TW 451005 B 20010821; US 6092564 A 20000725

## DOCDB simple family (application)

**FR 9716739 A 19971224**; BR 9805699 A 19981222; CN 98126045 A 19981224; DE 69801208 T 19981217; EP 98420238 A 19981217; ES 98420238 T 19981217; JP 36553398 A 19981222; KR 19980056660 A 19981221; PT 98420238 T 19981217; TR 9802688 A 19981224; TW 87121495 A 19981223; US 21830298 A 19981222