

Title (en)
Heald and heald frame for weaving loom

Title (de)
Litze und Litzen-Rahmen für Webstuhl

Title (fr)
Lisse et cadre à lisses pour métier à tisser

Publication
EP 1433883 A1 20040630 (FR)

Application
EP 03356211 A 20031223

Priority
FR 0216661 A 20021224

Abstract (en)
The heddle (3) for a loom (M) having at least one heddle frame (2) with two cross-members (22, 22') for attaching the heddle to has a coupling on each end with at least two thrust sections (33g, 33j) that engage simultaneously with corresponding surfaces (23g, 23j) on a traction bar (23) attached to one of the cross-members. The thrust sections are offset relative to one another on a line parallel to the heddle's lengthwise axis. The heddle coupling with the thrust surfaces has two branches (331, 332) enclosing a space (V33) to receive the traction bar, each of the branches having at least one tooth (33a, 33b, 33c, 33d) equipped with the thrust sections. Depending on the number of teeth, they can either face one another or be staggered, and in variants of the design the couplings can have different shapes, e.g. U-shaped, C-shaped or in a closed loop.

Abstract (fr)
La lisse (3) est pourvue au niveau de chacune de ses extrémités (33) d'au moins deux sections (33g-33j) d'appui simultané sur des surfaces correspondantes (23g- 23j) ménagées sur une barrette de traction (23) solidaire d'une traverse (22) d'un cadre de lisses. Ces sections (33g-33i) et ces surfaces (23g-23i) permettent la transmission d'un effort de traction (T) exercé par l'une des traverses (22) sur la lisse (3). Elles sont décalées selon une direction globalement parallèle à un axe longitudinal (X3) de la lisse et à un axe (X21, X21') des montants du cadre. <IMAGE>

IPC 1-7
D03C 9/00; **D03C 9/02**; **D03C 9/06**

IPC 8 full level
D03C 9/02 (2006.01); **D03C 9/00** (2006.01); **D03C 9/04** (2006.01); **D03C 9/06** (2006.01); **D03D 49/00** (2006.01); **D03D 49/40** (2006.01)

CPC (source: EP US)
D03C 9/02 (2013.01 - EP US); **D03C 9/0633** (2013.01 - EP US)

Citation (search report)
• [AD] EP 0072449 A1 19830223 - NISSAN MOTOR [JP]
• [AD] DE 1535847 A1 19700702 - GROB & CO AG
• [A] WO 9726396 A1 19970724 - PICANOL NV [BE], et al

Cited by
US10422027B2

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)
EP 1433883 A1 20040630; **EP 1433883 B1 20070124**; AT E352648 T1 20070215; CN 100503919 C 20090624; CN 1510188 A 20040707; DE 60311403 D1 20070315; DE 60311403 T2 20071108; FR 2849067 A1 20040625; FR 2849067 B1 20050429; JP 2004204424 A 20040722; JP 4610184 B2 20110112; US 2004154681 A1 20040812; US 6981527 B2 20060103

DOCDB simple family (application)
EP 03356211 A 20031223; AT 03356211 T 20031223; CN 200310123038 A 20031223; DE 60311403 T 20031223; FR 0216661 A 20021224; JP 2003424799 A 20031222; US 74292303 A 20031223