

Title (en)
Framebar for healdframe

Title (de)
Schaftstab für Webschäfte

Title (fr)
Barre pour cadre à lisses

Publication
EP 1659200 A1 20060524 (DE)

Application
EP 05023399 A 20051026

Priority
DE 102004055381 A 20041117

Abstract (en)
A heald shaft has a heald rail (6) carried on a transverse frame side (2) incorporating cross members (11, 12), some or all of which are thicker at the ends than in the middle of the span. The thickness variation can be in the form of steps, wedges or an arch. The transverse frame side (2) can be a single hollow aluminum extruded section or of composite construction. An independent claim is also included for a loom incorporating a heald shaft of this kind. Composite constructions have metal cross members (11, 12) joined by a side wall (8) of fiber reinforced plastic, rigid foam or honeycomb material. The metal components of the heald shaft are joined by welding and the remainder assembled using adhesives.

IPC 8 full level
D03C 9/06 (2006.01)

CPC (source: EP US)
D03C 9/0625 (2013.01 - EP US)

Citation (search report)
• [PX] EP 1484438 A2 20041208 - GROZ BECKERT KG [DE]
• [X] US 6076250 A 20000620 - SPITZER MANFRED [DE]
• [PX] EP 1526198 A2 20050427 - GROZ BECKERT KG [DE]
• [A] DE 29604326 U1 19960605 - SCHMEING GMBH & CO [DE]
• [A] US 3088496 A 19630507 - HOUGHTON DANIEL E, et al
• [A] US 5398989 A 19950321 - WINTER KARIN [DE], et al

Designated contracting state (EPC)
BE DE FR IT

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US 7264022 B2 20070904

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