

Title (en)
Shaft for heddle frames made of composite materials.

Title (de)
Balken aus Verbundwerkstoff für Webschäfte.

Title (fr)
Tige à matériaux composites pour cadres de lisses.

Publication
EP 0457210 A1 19911121 (EN)

Application
EP 91107616 A 19910510

Priority
IT 2030790 A 19900515

Abstract (en)
The shaft for heddle frames comprises a bar (1) on which surface layers (2) made of non-metallic material are associated. The bar (1) and the layers (2) delimit a box-like compartment (3) which is filled with a non-metallic material (4) and is closed, on the side opposite to the bar, by a member (5) which is shaped so as to have anchoring points (6) for heddles. <IMAGE>

IPC 1-7
D03C 9/06

IPC 8 full level
D03C 9/06 (2006.01)

CPC (source: EP)
D03C 9/0625 (2013.01); **D03C 9/0633** (2013.01)

Citation (search report)
• [A] US 4484604 A 19841127 - KRAMER CHARLES F [US], et al
• [A] US 4901767 A 19900220 - KOCH BERNHARD [CH]
• [A] US 4844130 A 19890704 - BLONTROCK DANIEL [BE]
• [A] EP 0302798 A2 19890208 - STEEL HEDDLE MFG CO [US]
• [A] US 3348580 A 19671024 - KOCH BERNHARD R

Cited by
US5280810A; EP1067298A3; US7069959B2; FR2857675A1; DE10153729A1; DE10153729B4; EP0770722A1; BE1018874A3; US5345974A; ES2051153A1; EP1498521A3; US6994123B2; WO2013064355A2; US7147010B2; US7509981B2; WO2011023383A1

Designated contracting state (EPC)
BE CH DE ES FR LI

DOCDB simple family (publication)
EP 0457210 A1 19911121; FI 912332 A0 19910514; FI 912332 A 19911116; IT 1239916 B 19931123; IT 9020307 A0 19900515; IT 9020307 A1 19911115; JP H05331735 A 19931214

DOCDB simple family (application)
EP 91107616 A 19910510; FI 912332 A 19910514; IT 2030790 A 19900515; JP 10789391 A 19910514