

Title (en)
Mandrel for digital printing

Title (de)
Spanndorn für den Digitaldruck

Title (fr)
Mandrin pour l'impression digitale

Publication
EP 1782951 A1 20070509 (DE)

Application
EP 05110323 A 20051103

Priority
EP 05110323 A 20051103

Abstract (en)
Mandrel has several clamping segments (2a) forming cylindrical clamping surface (16) for engaging inner surface of hollow body and the clamping segments are guided to move radially in a synchronous manner. A power transmission device (10,13) is arranged inside the mandrel for controlling radial movement of the clamping segments by which the clamped hollow body is moved in a precisely controlled manner. An independent claim is also included for procedure for accurate positioning and controlling the hollow body.

IPC 8 full level
B41F 17/00 (2006.01)

CPC (source: EP US)
B41F 17/002 (2013.01 - EP US)

Citation (applicant)
US 6767357 B2 20040727 - UEHARA HIROYUKI [JP], et al

Citation (search report)
• [XA] US 3960073 A 19760601 - RUSH JOHN E
• [X] US 2578953 A 19511218 - TYRRELL EMMET R
• [X] US 2909338 A 19591020 - GIUSEPPE COZZO
• [X] US 3356019 A 19671205 - ZURICK ALBERT T
• [X] US 3548745 A 19701222 - SIRVET ENN, et al

Cited by
CN115872237A; CN103192599A; CN112805154A; US11571912B2; WO2018083162A1; WO2020072061A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
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EP 05110323 A 20051103; AT 05110323 T 20051103; AU 2006310477 A 20061103; BR PI0618252 A 20061103; CA 2628334 A 20061103; CN 200680050329 A 20061103; DE 502005002250 T 20051103; EP 2006068090 W 20061103; ES 05110323 T 20051103; IL 19122308 A 20080501; JP 2008539410 A 20061103; NZ 56820306 A 20061103; PL 05110323 T 20051103; RU 2008122059 A 20061103; UA A200807572 A 20061103; US 9253006 A 20061103; ZA 200804453 A 20080522