

Title (en)

Mandrel for skew rolling of metallic hollow bodies in skew rolling mills

Title (de)

Lochdorn zum Schrägwalzen von metallischen Hohlkörpern auf Schrägwalzwerken

Title (fr)

Mandrin pour le laminage oblique de corps creux métalliques dans des laminoirs à cylindres obliques

Publication

EP 1155754 A3 20040204 (DE)

Application

EP 01102440 A 20010203

Priority

DE 10024246 A 20000517

Abstract (en)

[origin: EP1155754A2] Mandrel has balls (2) divided into two longitudinal sections (3), a tip section (3) and a rear longitudinal section (5) as a mandrel base body (6). The whole cross-section of the tip section consists of a high melting material or a high melting material alloy. Preferably the tip section is made from a titanium-molybdenum alloy. The mandrel base body is formed from a high heat-resistant tool steel. A blind hole bore (8) having an inner thread is provided in the mandrel base body.

IPC 1-7

B21B 25/00

IPC 8 full level

B21B 25/00 (2006.01); **B21B 19/04** (2006.01)

CPC (source: EP)

B21B 25/00 (2013.01); **B21B 19/04** (2013.01)

Citation (search report)

- [A] EP 0743106 A1 19961120 - NIPPON KOKAN KK [JP]
- [XA] PATENT ABSTRACTS OF JAPAN vol. 012, no. 061 (M - 671) 24 February 1988 (1988-02-24)
- [XA] PATENT ABSTRACTS OF JAPAN vol. 014, no. 579 (M - 1063) 25 December 1990 (1990-12-25)
- [XA] PATENT ABSTRACTS OF JAPAN vol. 012, no. 484 (M - 776) 16 December 1988 (1988-12-16)
- [XA] PATENT ABSTRACTS OF JAPAN vol. 014, no. 069 (M - 0932) 8 February 1990 (1990-02-08)

Cited by

EP2889090A4

Designated contracting state (EPC)

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EP 1155754 A2 20011121; **EP 1155754 A3 20040204**; **EP 1155754 B1 20051005**; AT E305827 T1 20051015; DE 10024246 A1 20011122; DE 50107592 D1 20051110; ES 2249331 T3 20060401

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