

Title (en)

INSERT MOLDED END PIN SHAFTS FOR MAGNET ROLL DEVELOPER

Title (de)

EINSATZGEFORMTE ENDSTIFTSCHÄFTE FÜR MAGNETISCHEN ROLLENENTWICKLER

Title (fr)

TIGES DE BROCHE D'EXTREMITÉ MOULÉES PAR INSERTION POUR REVELATEUR A CYLINDRE MAGNETIQUE

Publication

EP 1100668 A4 20041215 (EN)

Application

EP 99925571 A 19990504

Priority

- US 9909802 W 19990504
- US 7215298 A 19980504

Abstract (en)

[origin: WO9956933A1] A developer magnet roll (1) with insert molded end pin shafts (2) on both ends. The end pin shafts are insert molded within a ferrite and binder magnet roll to provide improved strength, straightness, and processing at reduced costs.

IPC 1-7

B29C 45/14; **H01F 7/00**; **B29C 45/00**

IPC 8 full level

B29C 45/00 (2006.01); **B29C 45/14** (2006.01); **G03G 15/09** (2006.01); **H01F 7/02** (2006.01)

CPC (source: EP KR)

B29C 45/0013 (2013.01 - EP); **B29C 45/14336** (2013.01 - EP); **G03G 15/0921** (2013.01 - EP); **H01F 7/02** (2013.01 - KR); **H01F 7/0268** (2013.01 - EP); **B29K 2995/0008** (2013.01 - EP); **B29L 2031/324** (2013.01 - EP)

Citation (search report)

- [X] DE 19622093 A1 19961205 - BRIDGESTONE CORP [JP]
- [X] US 5384957 A 19950131 - MOHRI FUMIHITO [JP], et al
- [X] US 3149403 A 19640922 - AURICH CHRISTOPH W, et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 0113, no. 62 (P - 640) 26 November 1987 (1987-11-26)
- [X] PATENT ABSTRACTS OF JAPAN vol. 0102, no. 51 (E - 432) 28 August 1986 (1986-08-28)
- See references of WO 9956933A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

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US 9909802 W 19990504; AU 4182699 A 19990504; CN 99805802 A 19990504; EP 99925571 A 19990504; JP 2000546931 A 19990504; KR 20007012147 A 20001101