



(51) International Patent Classification:
B29D 30/02 (2006.01)

(21) International Application Number:
PCT/US2012/026944

(22) International Filing Date:
28 February 2012 (28.02.2012)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicants (for all designated States except US): **MICHELIN RECHERCHE ET TECHNIQUE S.A.** [CH/CH]; Route Louis Brallie 10, CH 1760 Granges-paccot (CH). **SOCIETE DE TECHNOLOGIE MICHELIN** [FR/FR]; 23 Rue Breschet, F-63000 Clermont-ferrand (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ANDERSON, Scott, Powell** [US/US]; 2 Boyce Avenue, Greenville, SC 29601 (US). **WILSON, Brian D.** [US/US]; 102 Paddock Court, Greer, South Carolina 23650 (US).

(74) Agent: **FUGMAN, Kurt, J.**; Michelin North America, Inc., 515 Michelin Road, Greenville, SC 29605 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,

CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

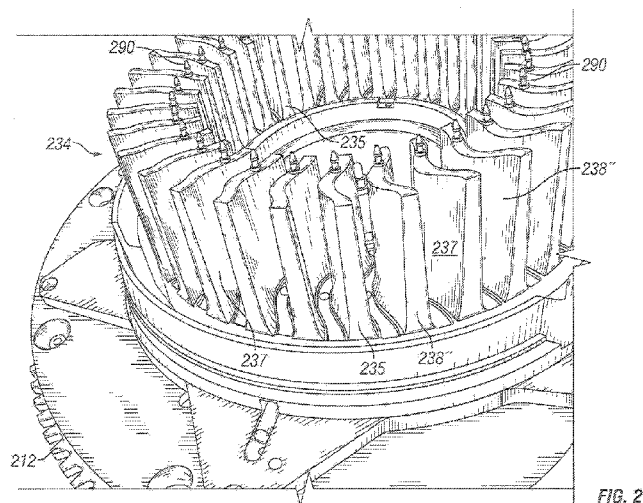
Published:

— with international search report (Art. 21(3))

(88) Date of publication of the international search report:

17 April 2014

(54) Title: APPARATUS FOR CASTING A NON-PNEUMATIC TIRE HAVING A FLOATING MOLD ALIGNMENT MECHANISM



(57) Abstract: This invention relates generally to an apparatus for rotationally casting a portion of a tire, and, more specifically, to an apparatus that has a floating alignment mechanism that allows a portion of a mold to move in the radial direction of the tire, which it, at least; partially forms, allowing the molding apparatus to omit, the use of tie bars. The -mechanism may comprise two set of needle roller bearings that are orthogonally arranged to allow radial movement of a portion of a mold.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/026944

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - B29D 30/02 (2012.01)

USPC - 425/34.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - B29D 30/02, 30/06; B60C 7/00 (2012.01)

USPC - 156/404; 264/326; 425/34.1, 38, 43, 47

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PatBase

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CA 1,293,602 C (AMANO et al) 31 December 1991 (31.12.1991) entire document	1, 2, 8, 9, 13, 14
A	US US 4,124,345 A (GRUNNER et al) 07 November 1978 (07.11.1978) entire document	1-15
A	US 5,906,836 A (PANARONI et al) 25 May 1999 (25.05.1999) entire document	1-15
A	US 5,127,811 A (TRETOWAN) 07 July 1992 (07.07.1992) entire document	1-15
A	US 2011/0240193 A1 (MATSUDA et al) 06 October 2011 (06.10.2011) entire document	1-15

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

25 May 2012

Date of mailing of the international search report

07 JUN 2012

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P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Blaine R. Copenheaver

PCT Helpdesk: 571-272-4300

PCT OSP: 571-272-7774