(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
9 April 2015 (09.04.2015)

WIPO | PCT

(10) International Publication Number
WO 2015/050823 A3

(51) **International Patent Classification**:
B21B 31/08 (2006.01)

(21) **International Application Number**:
PCT/US2014/058076

(22) **International Filing Date**:
29 September 2014 (29.09.2014)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
61/885,820 2 October 2013 (02.10.2013) US

(71) **Applicant**: **FIVES BRONX, INC.** [US/US]; 8817 Pleasantwood Avenue, N.W., North Canton, OH 44720 (US).

(72) **Inventors**: **MORREALE, Armando, F.**; 141 Buckhill Road, Pittsburgh, PA 15237 (US). **DRAY, Edward, A.**; 3883 Cromford Circle NW, Uniontown, OH 44685 (US). **LUKOWSKI, Mark, E.**; 16255 Terramont Street NE, Minerva, OH 44657 (US).

(74) **Agents**: **SCANLON, Stephen, D.** et al.; Thompson Hine LLP, 10050 Innovation Drive, Suite 400, Dayton, OH 45342-4934 (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, BN, 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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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,

[Continued on next page]

(54) **Title**: ROLL CHANGE APPARATUS

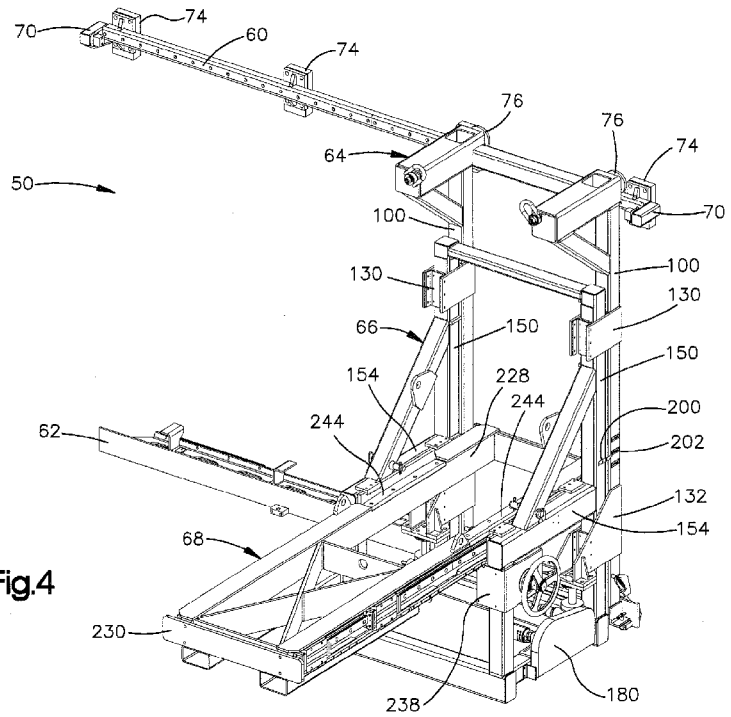


Fig.4

(57) **Abstract**: A rolling machine has pairs of rolls in a horizontal line of roll pair locations, with each pair including upper and lower rolls opposed across a vertical gap. A sliding frame is mounted on the rolling machine for movement alongside the rolling machine in a direction parallel to the line of roll pair locations. A lifting frame is mounted on the sliding frame for movement vertically relative to the sliding frame beside each of the roll pair locations. Other parts include a roll cassette and a load tray. The load tray is configured to carry the roll cassette, and is mounted on the lifting frame for movement relative to the lifting frame transversely into the vertical gap between the rolls at each roll pair location.

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SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

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

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:
28 May 2015

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 14/58076

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - B21B 31/08 (2014.01)
CPC - B21B 2203/06
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): B21B 31/08 (2014.01)
CPC: B21B 2203/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
IPC(8): B21B 31/00, B21B 31/02, B21B 13/02 (2014.01) CPC: B21B 31/00, B21B 31/02, B21B 31/04, B21B 31/08, B21B 31/10, B21B 13/023, B21B 31/103 USPC: 72/237, 72/238, 72/239

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PatBase; ProQuest Dialog; Google Patents; Google Web; Google Scholar
Search Terms: roll%, mill%, machine%, slid%, frame%, lift%, rais%, support%, load%, tray%, plate%, cassette%, rack%, sliding frame, elevat%, inclin%, Diescher, pipe, roll%, two-high, two high, replac%, interchang%, exchang%, swap%, install%, remov%, roll%, carrier%

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,771,626 A (Ichida et al.) 20 September 1988 (20.09.1988), Fig. 1; col 2, ln 24-34; col 4, ln 26-28, 43-50.	1-21
A	US 2,037,210 A (Buente) 14 April 1936 (14.04.1936), Figs. 1, 3-4; col 1, ln 48-55; col 2, ln 49-52; col 3, ln 1-6.	1-21
A	US 5,590,557 A (Keller et al.) 07 January 1997 (07.01.1997), Fig. 1; col 2, ln 48-50, 52-55.	1-21

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Date of the actual completion of the international search	Date of mailing of the international search report
26 December 2014 (26.12.2014)	31 MAR 2015
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)