

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 May 2008 (29.05.2008)

PCT

(10) International Publication Number
WO 2008/064144 A3

(51) International Patent Classification:
B41J 2/165 (2006.01) **B41J 2/01** (2006.01)

(21) International Application Number:
PCT/US2007/085052

(22) International Filing Date:
19 November 2007 (19.11.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/601,915 20 November 2006 (20.11.2006) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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,

[Continued on next page]

(54) Title: DRUM-MOUNTED ROLLER SPITTOON SYSTEM AND METHOD

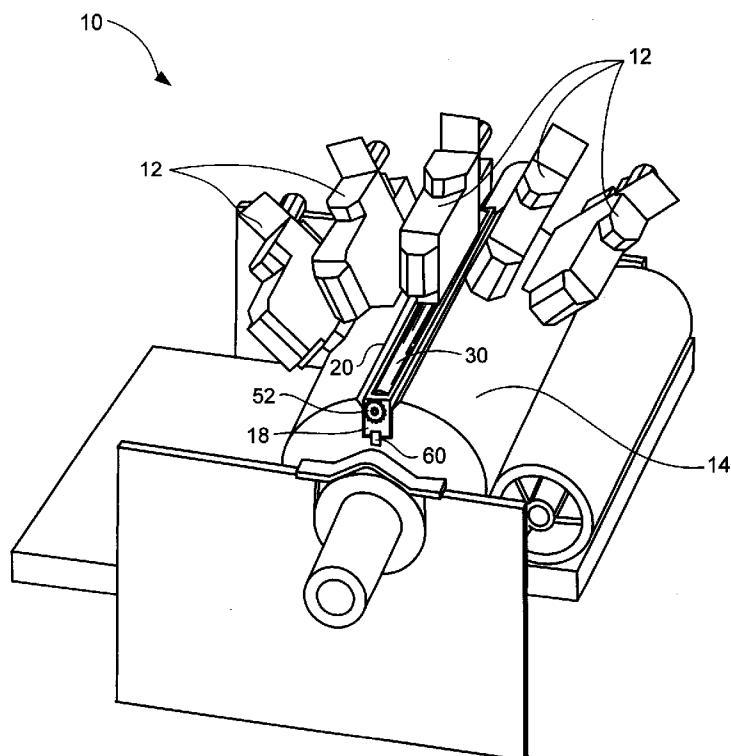


FIG. 1

(57) Abstract: In many printing systems, a print head assembly moves from a print zone to a service station outside the print zone, to allow cleaning and protection of print heads during a non-printing period or a shutdown process. With drum-type printers, it is generally considered impractical to interrupt printing by moving the print heads to a position of a drum to perform a decap spitting, i.e., cleaning of the print heads. Advantageously, a drum-mounted roller spittoon system is developed which allows decap spitting as often as desired without the need to move the print heads out of the print zone. In the drum-mounted roller spittoon system, a roller spittoon cartridge is removably mounted in a channel in the printer drum.

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GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *as to the identity of the inventor (Rule 4.17(i))*

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

— *with international search report*

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

31 July 2008

A. CLASSIFICATION OF SUBJECT MATTER***B41J 2/165(2006.01)i, B41J 2/01(2006.01)i***

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: B41J 2/165

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

Korean utility models and applications for utility models since 1975

Japanese utility models and applications for utility models since 1975

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

eKIPASS (KIPO internal) & keywords: "drum", "spittoon", "roller", and "ink jet"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005-0270327 A1 (BROOKMIRE et al.) 8 DECEMBER 2005 See paragraph [0025]; Figures 3 and 4.	1 - 10
A	US 2004-0218003 A1 (MONCLUS et al.) 4 NOVEMBER 2004 See abstract.	1 - 10
A	US 2003-0227503 A1 (KLAUSBRUCKNER et al.) 11 DECEMBER 2003 See abstract.	1 - 10



Further documents are listed in the continuation of Box C.



See patent family annex.

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Date of the actual completion of the international search

29 APRIL 2008 (29.04.2008)

Date of mailing of the international search report

29 APRIL 2008 (29.04.2008)

Name and mailing address of the ISA/KR

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Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2007/085052Patent document
cited in search reportPublication
datePatent family
member(s)Publication
date

US 2005-0270327 A1

08-12-2005

None

US 2004-0218003 A1

04-11-2004

None

US 2003-0227503 A1

11-12-2003

None