



(51) International Patent Classification:
A61J 3/02 (2006.01) B01F 7/04 (2006.01)

(21) International Application Number:
PCT/US2009/005440

(22) International Filing Date:
3 October 2009 (03.10.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/103,621 8 October 2008 (08.10.2008) US

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(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, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, 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, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, 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:
2 September 2010

(54) Title: METHOD FOR ALTERNATELY SIFTING AND BLENDING POWDERS IN THE SAME OPERATION

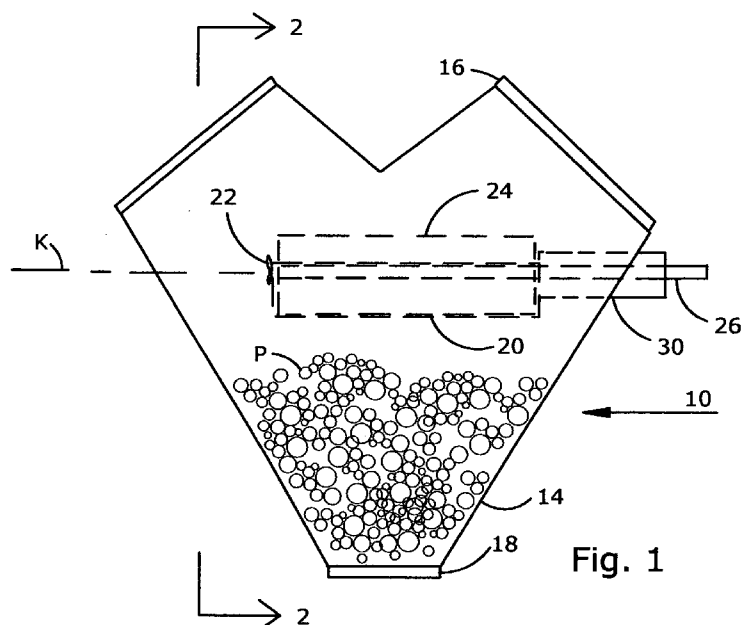


Fig. 1

(57) Abstract: A tumbler (14) is mounted for rotation around a trunnion (30) with a screen (20) fixedly mounted to a portion of the trunnion (30) residing within the tumbler (14). A multiple blade paddle (24) is mounted to a shaft (26) that is rotatably supported through the trunnion (30). The paddle (24) blades are formed with angular edges. As the tumbler (14) rotates and the paddle (24) rotates, powder (P) is repeatedly dropped onto the screen (20) to be sifted with the aid of the paddle (24). Rotating the tumbler (14) further drops unsifted portions of the powder (P) out of the screen (20) to mix with additional powder (P) in the tumbler (14) body. Thus, sifting and blending of powders is accomplished in one single operation.

A. CLASSIFICATION OF SUBJECT MATTER**A61J 3/02(2006.01)i, B01F 7/04(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 A61J, B01F

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

Japanese utility models and applications for utility models

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

eKOMPASS(KPA, PAJ, FPD, USPATFULL) in KIPO, CA online & keywords: tumbler, screen, agitator, paddle, V-blender, powder

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-0769233 B1 (SHIN MYUNG INDUSTRIAL CO., LTD.) 23 October 2007 See the abstract; figure 2; claims 3, 4	1-8
A	KR 10-0140014 B1 (HWANG, YEONG JIN) 01 June 1998 See the abstract; figures 1a, 2, 4a, 4b, 5, 6; claims 1, 2	1-8
A	KR 10-0359593 B1 (ASTRA AKTIEBOLAG) 24 January 2003 See the abstract; figures 1, 2, 3a; claims 1-18	1-8
A	KR 10-2008-0027817 A (TOKYO PRINTING INK MFG. CO., LTD.) 28 March 2008 See the abstract; figures 1-15; claims 1, 12, 16, 19, 20, 23-26	1-8
A	US 06776517 B2 (AFNAN et al.) 17 August 2004 See the abstract; figures 1, 3, 9, 10; claims 1-13	1-8



Further documents are listed in the continuation of Box C.



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Date of the actual completion of the international search

06 JULY 2010 (06.07.2010)

Date of mailing of the international search report

07 JULY 2010 (07.07.2010)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

Jang, Ki Wan

Telephone No. 82-42-481-5567



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2009/005440

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