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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
03 August 2017 (03.08.2017)

WIPO | PCT

(10) International Publication Number
WO 2017/132556 A3

(51) International Patent Classification:
B08B 3/02 (2006.01) *B08B 3/08* (2006.01)

(21) International Application Number:
PCT/US2017/015423

(22) International Filing Date:
27 January 2017 (27.01.2017)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/287,964 28 January 2016 (28.01.2016) US
15/417,570 27 January 2017 (27.01.2017) US

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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM,

(54) Title: SYSTEM FOR CLEANING FRESH AND FRESH-CUT PRODUCE

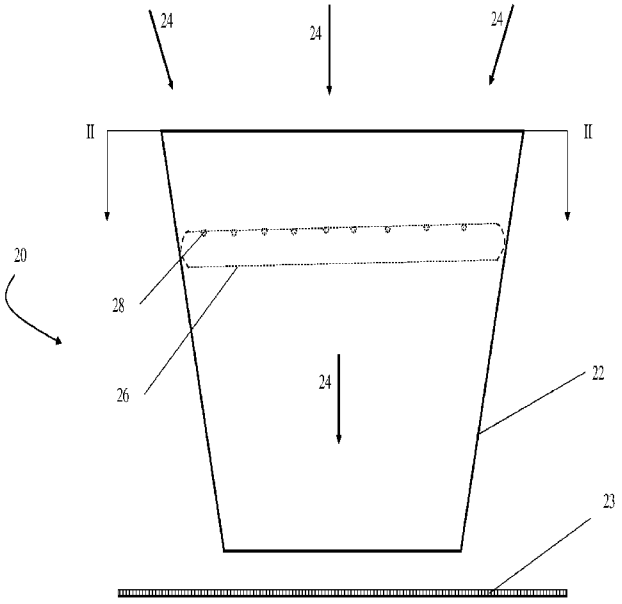


FIG.1

(57) Abstract: The system for cleaning fresh and freshly-cut produce is designed to clean produce as soon as practicable after the produce is cut. As the produce falls downwardly, a spray manifold directs a produce-washing liquid upwardly so that the produce-washing liquid directly sprays and impacts the falling produce. The impact of the produce-washing liquid causes the produce to tumble and the descent of the produce is slowed, and consequently the produce is thoroughly coated and cleaned by the produce-washing liquid. In an alternative embodiment, a suspending fluid (preferably air) is simultaneously directed to the falling produce to slow the descent of the produce and further ensure that the produce is thoroughly washed and directly sprayed by the produce-washing liquid.

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[Continued on next page]

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, 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, KH, KN, KP, KR, KW, 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, 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))*

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

26 July 2018 (26.07.2018)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2017/015423

A. CLASSIFICATION OF SUBJECT MATTER

B08B 3/02(2006.01)i, B08B 3/08(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)
B08B 3/02; C01B 33/037; B08B 7/04; B07B 1/28; B08B 3/12; A23N 12/02; B03B 5/68; B08B 3/08

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(KIPO internal) & keywords: washing liquid, spray, nozzle, chute, fruit, feeder, suspending fluid, and manifold

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 03058532 U (SHOWA CO., LTD.) 18 June 1999 See paragraphs [0020]-[0025] and figure 1.	1,5-8,10-13,15-17,19,22-23 2-4,9,14,18,20-21,24-28
Y	KR 20-0449276 Y1 (DAE SHIN TOTAL KITCHEN EQUIPMENT CO., LTD.) 28 June 2010 See paragraphs [0019]-[0023] and figure 3.	2-4,9,14,18,20-21,24-28
A	CN 103880010 A (WU DEGUANG) 25 June 2014 See paragraphs [0011]-[0012] and figure 1.	1-28
A	US 2006-0237044 A1 (FERGUSON et al.) 26 October 2006 See paragraphs [0036]-[0037] and figure 1.	1-28
A	US 2007-0056610 A1 (LEE et al.) 15 March 2007 See paragraphs [0067]-[0072] and figure 7.	1-28

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search	Date of mailing of the international search report
16 May 2017 (16.05.2017)	**16 May 2017 (16.05.2017)**

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2017/015423

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