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| APPLICATION NO. | FILING DATE                        | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|-----------------|------------------------------------|----------------------|---------------------|------------------|--|
| 14/964,698      | 12/10/2015                         | 228877               | 5171                |                  |  |
|                 | 7590 08/07/201<br>OF JERRY D. HAYN |                      | EXAM                | INER             |  |
|                 | Blvd Suite 800                     | ,                    | RASHID, FAZLE A     |                  |  |
|                 |                                    |                      | ART UNIT            | PAPER NUMBER     |  |
|                 |                                    |                      | 1774                |                  |  |
|                 |                                    |                      | NOTIFICATION DATE   | DELIVERY MODE    |  |
|                 |                                    |                      | 08/07/2017          | EI ECTRONIC      |  |

### Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jdhlaw@mac.com jdh@ip-pages.com dwhitman@ip-pages.com

|   | Application No.<br>14/964,698   | Applicant(s)<br>LITTRELL, V                             | VALLACE                                 |  |  |  |
|---|---|---|---|--|--|--|
| Office Action Summary   | Examiner<br>ABBAS RASHID  | Art Unit<br>1774  | AIA (First Inventor to File) Status Yes |  |  |  |
| The MAILING DATE of this communication app  | ears on the cover sheet with the c  | corresponden  | ce address                              |  |  |  |
| Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  | 36(a). In no event, however, may a reply be tir<br>vill apply and will expire SIX (6) MONTHS from<br>, cause the application to become ABANDONE   | nely filed<br>the mailing date of<br>D (35 U.S.C. § 133 | f this communication.                   |  |  |  |
| Status  |   |   |   |  |  |  |
| 1) Responsive to communication(s) filed on 12/10  A declaration(s)/affidavit(s) under 37 CFR 1.1  |   |   |   |  |  |  |
| *   | action is non-final.  |   |   |  |  |  |
| 3) An election was made by the applicant in responsible. ; the restriction requirement and election 4) Since this application is in condition for allowar   | An election was made by the applicant in response to a restriction requirement set forth during the interview on; the restriction requirement and election have been incorporated into this action.                           |   |   |  |  |  |
| Disposition of Claims*  |   |   |   |  |  |  |
| 5) Claim(s) 1-5 is/are pending in the application.  5a) Of the above claim(s) is/are withdraw  6) Claim(s) is/are allowed.  7) Claim(s) 1-5 is/are rejected.  8) Claim(s) is/are objected to.  9) Claim(s) are subject to restriction and/or if any claims have been determined allowable, you may be eliparticipating intellectual property office for the corresponding aparticipating intellectual property office for the corresponding aparticipation Papers  10) The specification is objected to by the Examine  11) The drawing(s) filed on 2/29/16 is/are: a) accomplicant may not request that any objection to the objected to be corrected. | r election requirement. igible to benefit from the <b>Patent Pro</b> oplication. For more information, plea an inquiry to <u>PPHfeedback@uspto.c</u> r. cepted or b) □ objected to by the drawing(s) be held in abeyance. See | e Examiner.<br>e 37 CFR 1.85                            | (a).                                    |  |  |  |
| Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign Certified copies:  a) All b) Some** c) None of the:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau.  ** See the attached detailed Office action for a list of the certified copies.  | ts have been received.<br>ts have been received in Applica<br>rity documents have been receiv<br>u (PCT Rule 17.2(a)).  | tion No   |   |  |  |  |
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| Attachment(s)   |   |   |   |  |  |  |
| Notice of References Cited (PTO-892)  | 3) Interview Summary Paper No(s)/Mail Da SB/08b) 4) Other:  |   |   |  |  |  |

#### **DETAILED ACTION**

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

#### Claim Objections

Claim 1 is objected to because of the following informality: "jigger cap" in line 3 should be changed to "said jigger cap". Appropriate correction is required.

Claims 1-5 are objected to because of the following informality: the recitations of "where" in lines 2, 3, 5, and 8 of claim 1, line 1 of claim 2, line 1 of claim 3, line 1 of claim 4, and line 1 of claim 5 should be changed to "wherein". Appropriate correction is required.

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

Claims 1-5 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Scarborough (U.S. 2007/0215496), hereinafter referred to as Scarborough.

As to claim 1, Scarborough discloses a system comprising: a container (container 12, Figures 1-2) capable of including a first liquid; a jigger cap (jigger cap 11 having internal compartment, Figures 1-2) including a liquid area compartment capable of including a second liquid; a plunger button (plunger button 24, Figures 2 and 4-5) at the top of the jigger cap, where the plunger button includes a stem (stem 26 extending through column within compartment of jigger cap 11, Figures 2 and 4-5) extending through a column traveling through the liquid area compartment; a fluid barrier (barrier 28, Figures 3-6) at the bottom of the jigger cap; and a base (base 27, Figures 2 and 5) at the bottom of the stem, where the base is capable of penetrating the fluid barrier upon depression of the plunger button (base 27 penetrates barrier 28 upon depression of plunger button 24, paragraph 30 and Figure 5).

As to claim 2, Scarborough discloses the system wherein the container is a bottle (container 12 is a bottle, paragraphs 4 and 28).

As to claims 3-5, "inclusion of the material or article worked upon by a structure being claimed does not impart patentability to the claims." *In re Otto*, 312 F.2d 937, 136 USPQ 458, 459 (CCPA 1963); see also *In re Young*, 75 F.2d 996, 25 USPQ 69 (CCPA 1935), as described in MPEP 2115.

Nevertheless, Scarborough discloses the liquid stored in the container is one of a soda, water, club soda, juice, cream and milk (water; non-alcoholic beverage;

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paragraph 28) and the liquid held within the compartment of the jigger cap is a liquor (liquor, paragraph 28).

Claims 1-5 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Bowes et al. (U.S. 3,156,369), hereinafter referred to as Bowes.

As to claims 1-5, Bowes discloses a system comprising: a container bottle (container bottle 11, Figures 1 and 3) capable of including a first liquid; a jigger cap (jigger cap 26, Figures 1 and 4) including a liquid area compartment capable of including a second liquid; a plunger button (plunger button 28, Figures 3-4) at the top of the jigger cap, where the plunger button includes a stem (stem 27 extending through column 15 within compartment of jigger cap 26, Figures 3-4) extending through a column (column 15, Figures 3-4) traveling through the liquid area compartment; a fluid barrier (barrier 16, Figures 3-4) at the bottom of the jigger cap; and a base (base 29, Figures 3-4) at the bottom of the stem, where the base is capable of penetrating the fluid barrier upon depression of the plunger button (base 29 penetrates barrier 16 upon depression of plunger button 28, column 3, lines 51-73 and Figure 3). The limitations concerning the compositions of the first and second liquids do not further limit the claimed system.

Claims 1-5 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Fontana et al. (U.S. 7,870,952), hereinafter referred to as Fontana.

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As to claims 1-5, Fontana discloses a system comprising: a container bottle (container bottle 2, Figures 11-12) capable of including a first liquid; a jigger cap (jigger cap 22, Figures 11-12) including a liquid area compartment capable of including a second liquid; a plunger button (plunger button 20, column 5, line 37 and Figures 11-12) at the top of the jigger cap, where the plunger button includes a stem (stem 19 extending through column 6 within compartment of jigger cap 22, column 5, lines 35-43 and 64-67 and Figures 11-12) extending through a column (column 6, Figures 11-12) traveling through the liquid area compartment; a fluid barrier (breakable bottom 8/8a/8b, column 6, lines 7-11 and Figures 11-12) at the bottom of the jigger cap; and a base (pointed base at bottom of stem 19, column 5 lines 35-36 and Figures 11-12) at the bottom of the stem, where the base is capable of penetrating the fluid barrier upon depression of the plunger button (pointed base at bottom of stem 19 penetrates barrier 8 upon depression of plunger button 20, column 5, lines 43-52, column 6, lines 1-11 and Figures 11-12). The limitations concerning the compositions of the first and second liquids do not further limit the claimed system.

Claims 1-5 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Morini (U.S. 6,148,996), hereinafter referred to as Morini.

As to claims 1-5, Morini discloses a system comprising: a container bottle (container bottle 1, Figure 2) capable of including a first liquid; a jigger cap (jigger cap 3,

Figure 2) including a liquid area compartment capable of including a second liquid; a plunger button (upper button portion of plunger 11, Figure 2) at the top of the jigger cap, where the plunger button includes a stem (main body stem of plunger 11 extending through column within compartment of jigger cap 3, Figure 2) extending through a column traveling through the liquid area compartment; a fluid barrier (bottom barrier 4 of jigger cap 3, column 3, lines 6-12 and Figure 2) at the bottom of the jigger cap; and a base (bottom base 12 of plunger 11, column 3, lines 17-20 and Figure 2) at the bottom of the stem, where the base is capable of penetrating the fluid barrier upon depression of the plunger button (base 12 at bottom of main body stem of plunger 11 penetrates barrier 4 upon depression of upper button portion of plunger 11, column 3, lines 6-12 and 17-20, column 4, lines 3-5, and Figures 2-3). The limitations concerning the compositions of the first and second liquids do not further limit the claimed system.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure, as is listed in the attached sheet of references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ABBAS RASHID whose telephone number is (571)270-7457. The examiner can normally be reached on Monday through Friday 7 AM to 5 PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an

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interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WALTER GRIFFIN can be reached on 571-272-1447. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ABBAS RASHID/ Primary Examiner, Art Unit 1774

# Notice of References Cited Application/Control No. 14/964,698 Examiner ABBAS RASHID Applicant(s)/Patent Under Reexamination LITTRELL, WALLACE Page 1 of 2

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|---|---|--|-----------------|----------------------------|--------------------|-------------------|
| * | Α | US-3,156,369 A                                   | 11-1964         | BOWES DONALD R             | B65D51/285         | 206/222           |
| * | В | US-3,603,469 A                                   | 09-1971         | Magni; Ambrogio            | B65D51/285         | 206/222           |
| * | С | US-4,195,731 A                                   | 04-1980         | Cavazza; Claudio           | B65D51/2814        | 206/222           |
| * | D | US-4,315,570 A                                   | 02-1982         | Silver; Jules              | B65D51/2864        | 206/221           |
| * | Е | US-5,335,773 A                                   | 08-1994         | Haber; Terry M.            | A61J1/2093         | 206/219           |
| * | F | US-5,927,549 A                                   | 07-1999         | Wood; Christopher J.       | B65D51/285         | 206/222           |
| * | G | US-6,148,996 A                                   | 11-2000         | Morini; Emilio             | B65D51/285         | 206/222           |
| * | Н | US-6,152,296 A                                   | 11-2000         | Shih; Kuang-Sheng          | B65D51/2835        | 206/222           |
| * | I | US-2004/0020797 A1                               | 02-2004         | Fontana, Antonio           | A61J1/2093         | 206/219           |
| * | J | US-6,705,462 B2                                  | 03-2004         | Kasuya; Shoji              | B65D25/08          | 206/222           |
| * | K | US-6,820,740 B1                                  | 11-2004         | Spector; Donald            | B65D51/2828        | 206/219           |
| * | L | US-2005/0016875 A1                               | 01-2005         | Rodriguez, Jose Luis Galaz | B65D51/2814        | 206/219           |
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#### **NON-PATENT DOCUMENTS**

| * |   | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
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<sup>\*</sup>A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

# Notice of References Cited Application/Control No. 14/964,698 Examiner ABBAS RASHID Applicant(s)/Patent Under Reexamination LITTRELL, WALLACE Page 2 of 2

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| * | Α | US-2006/0137998 A1                               | 06-2006         | Spector; Donald      | B05B11/0081        | 206/219           |
| * | В | US-2007/0090000 A1                               | 04-2007         | Hjalmarsson; Per     | B65D51/225         | 206/219           |
| * | С | US-2007/0199838 A1                               | 08-2007         | Oh; Dong-Gie         | B65D81/3222        | 206/219           |
| * | D | US-2007/0215496 A1                               | 09-2007         | Scarborough; Ella B. | B65D81/3222        | 206/222           |
| * | Е | US-2010/0089776 A1                               | 04-2010         | Anthony; Joshua C.   | B65D5/748          | 206/222           |
| * | F | US-7,870,952 B2                                  | 01-2011         | Fontana; Antonio     | B65D51/2814        | 206/219           |
| * | G | US-2011/0266247 A1                               | 11-2011         | LITTRELL; WALLACE    | B65D51/2807        | 215/316           |
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| * | I | US-8,701,906 B1                                  | 04-2014         | Anderson; Michael R. | B65D41/20          | 206/220           |
|   | J | US-  |                 |                      |                    |                   |
|   | К | US-  |                 |                      |                    |                   |
|   | L | US-  |                 |                      |                    |                   |
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#### NON-PATENT DOCUMENTS

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\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



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### **BIB DATA SHEET**

#### **CONFIRMATION NO. 5171**

| SERIAL NUM                          | IBER                     | FILING OF                      |                           |                   | CLASS                 | GRO           | OUP ART  | UNIT      | ATTC   | RNEY DOCKET       |      |  |      |  |  |        |
|-------------------------------------|--------------------------|--------------------------------|---------------------------|-------------------|-----------------------|---------------|----------|-----------|--------|-------------------|------|--|------|--|--|--------|
| 14/964,69                           | 98                       | 12/10/2                        | _                         |                   | 366                   |               | 1774     |           | 1774   |                   | 1774 |  | 1774 |  |  | 228877 |
|                                     |                          | RUL                            | E                         |                   |                       |               |          |           |        |                   |      |  |      |  |  |        |
| APPLICANT                           | S                        |                                |                           |                   |                       |               |          |           |        |                   |      |  |      |  |  |        |
| INVENTORS<br>Wallace                |                          | Vilonia, AR;                   |                           |                   |                       |               |          |           |        |                   |      |  |      |  |  |        |
| wh                                  | lication i<br>ich is a   | is a CIP of 14<br>CIP of 13/86 | 1/600,007 (<br>2,005 04/1 | 01/19/2<br>2/201: | 3 ABN                 |               |          |           |        |                   |      |  |      |  |  |        |
| ** FOREIGN A                        | PPLICA                   | ATIONS *****                   | ******                    | *****             | *                     |               |          |           |        |                   |      |  |      |  |  |        |
| ** <b>IF REQUIRE</b><br>12/22/20    |                          | REIGN FILING                   | GLICENS                   | E GRA             | ANTED ** ** MICI      | RO EI         | NTITY ** |           |        |                   |      |  |      |  |  |        |
| Foreign Priority claim              |                          | Yes No                         | □ Mot of                  | <b>+</b> 0.*      | STATE OR              |               | HEETS    | TOT       |        | INDEPENDENT       |      |  |      |  |  |        |
| 35 USC 119(a-d) con<br>Verified and | ditions met<br>/ABBAS R/ |                                | ☐ Met af<br>Allowa        | ince              | COUNTRY               | DRA<br>       | WINGS    | CLAII     | VIS    | CLAIMS            |      |  |      |  |  |        |
| Acknowledged                        | Examiner's               | Signature                      | Initials                  |                   | AR                    |               | 3        | 5         |        | 1                 |      |  |      |  |  |        |
| ADDRESS                             |                          |                                |                           |                   |                       |               |          |           |        |                   |      |  |      |  |  |        |
|                                     |                          | F JERRY D. I<br>Blvd Suite 80  |                           | P. <b>A</b>       |                       |               |          |           |        |                   |      |  |      |  |  |        |
| Miami, Fl                           | L 33181                  |                                | ,0                        |                   |                       |               |          |           |        |                   |      |  |      |  |  |        |
| UNITED                              | STATE                    | S                              |                           |                   |                       |               |          |           |        |                   |      |  |      |  |  |        |
| TITLE                               |                          |                                |                           |                   |                       |               |          |           |        |                   |      |  |      |  |  |        |
| MIXED D                             | RINK S                   | SYSTEM                         |                           |                   |                       | -             |          |           |        |                   |      |  |      |  |  |        |
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# **EAST Search History**

# **EAST Search History (Prior Art)**

| Ref<br># | Hits | Search Query   | DBs                    | Default<br>Operator | Plurals | Time<br>Stamp       |
|----------|------|--|------------------------|---------------------|---------|---------------------|
| L1       | 2250 | 206/219,222.ccls.  | US-<br>PGPUB;<br>USPAT | OR                  | OFF     | 2017/08/01<br>21:38 |
| L2       | 320  | A47J43/27.cpc.   | US-<br>PGPUB;<br>USPAT | OR                  | OFF     | 2017/08/01<br>22:11 |
| L3       | 614  | A47J43/27.cpc.   | FPRS                   | OR                  | OFF     | 2017/08/01<br>22:12 |
| L4       | 20   | (US-20060137998-\$ or US-20070215496-\$ or US-20070199838-\$ or US-20070090000-\$ or US-20050016875-\$ or US-20040020797-\$ or US-20120204578-\$ or US-20100089776-\$).did. or (US-6705462-\$ or US-6152296-\$ or US-3156369-\$ or US-8701906-\$ or US-7870952-\$ or US-6959839-\$ or US-5927549-\$ or US-4315570-\$ or US-3603469-\$ or US-6820740-\$ or US-5335773-\$ or US-4195731-\$).did. | US-<br>PGPUB;<br>USPAT | OR                  | OFF     | 2017/08/01<br>22:27 |
| L5       | 4    | "20070215496".pn. or "3156369".pn. or<br>"7870952".pn. or "6148996".pn.  | US-<br>PGPUB;<br>USPAT | OR                  | OFF     | 2017/08/01<br>22:29 |
| L6       | 21   | L4 or L5   | US-<br>PGPUB;<br>USPAT | OR                  | OFF     | 2017/08/01<br>22:29 |
| L7       | 1    | (US-20110266247-\$).did.   | US-<br>PGPUB           | OR                  | OFF     | 2017/08/01<br>22:30 |
| L8       | 22   | L6 or L7   | US-<br>PGPUB;<br>USPAT | OR                  | OFF     | 2017/08/01<br>22:30 |
| L9       | 0    | wallace near2 littrell.in.   | FPRS                   | OR                  | OFF     | 2017/08/01<br>22:31 |
| S1       | 87   | abbas near2 rashid.xa.   | US-<br>PGPUB;<br>USPAT | OR                  | OFF     | 2017/08/01<br>11:43 |
| S2       | 31   | abbas near2 rashid.xp.   | US-<br>PGPUB;<br>USPAT | OR                  | OFF     | 2017/08/01<br>11:43 |
| 83       | 1    | (13/281165).APP.   | US-<br>PGPUB;<br>USPAT | OR                  | OFF     | 2017/08/01<br>11:51 |
| S7       | 2    | wallace near2 littrell.in.   | US-<br>PGPUB;<br>USPAT | OR                  | OFF     | 2017/08/01<br>11:57 |
| S8       | 0    | (13/862005).APP.   | US-<br>PGPUB;<br>USPAT | OR                  | OFF     | 2017/08/01<br>11:57 |
| S9       | 0    | (14/600007).APP.   | US-<br>PGPUB;<br>USPAT | OR                  | OFF     | 2017/08/01<br>11:58 |

| S11 | 1   | (12/772288).APP.   | US-<br>PGPUB           | OR | OFF | 2017/08/01<br>11:58 |
|-----|-----|--|------------------------|----|-----|---------------------|
| S12 | 1   | "20060137998".pn.  | US-<br>PGPUB;<br>USPAT | OR | OFF | 2017/08/01<br>12:01 |
| S13 | 1   | "20070215496".pn.  | US-<br>PGPUB;<br>USPAT | OR | OFF | 2017/08/01<br>12:02 |
| S14 | 1   | (11/378125).APP.   | US-<br>PGPUB;<br>USPAT | OR | OFF | 2017/08/01<br>12:26 |
| S15 | 23  | ("6243936"   "7175049"   "20050016875"  <br>"4174035"   "5099998"   "5749460"  <br>"RE23434"   "20030213709"   "2938518"  <br>"3484011"   "4416382"   "20070090000"  <br>"3733771"   "20030089627"   "20070199838"  <br>"3156369"   "4903865"   "6705462"  <br>"4636328"   "20010001196"   "4615437"  <br>"5372268"   "6152296").PN. | US-<br>PGPUB;<br>USPAT | OR | OFF | 2017/08/01<br>12:27 |
| S16 | 112 | ("3156369").URPN.  | USPAT                  | OR | OFF | 2017/08/01<br>13:49 |
| S17 | 1   | "5038951".pn.  | USPAT                  | OR | OFF | 2017/08/01<br>14:28 |
| S18 | 1   | "6148996".pn.  | US-<br>PGPUB;<br>USPAT | OR | OFF | 2017/08/01<br>19:17 |
| S19 | 1   | "3156369".pn.  | US-<br>PGPUB;<br>USPAT | OR | OFF | 2017/08/01<br>20:06 |
| S20 | 573 | 366/130.ccls.  | US-<br>PGPUB;<br>USPAT | OR | OFF | 2017/08/01<br>20:10 |
| S21 | 896 | 220/23.87.ccls.  | US-<br>PGPUB;<br>USPAT | OR | OFF | 2017/08/01<br>20:52 |

# **EAST Search History (Interference)**

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8/1/2017 10:43:26 PM

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# Search Notes

| Application/Control No. | Applicant(s)/Patent Under Reexamination |
|-------------------------|---|
| 14964698                | LITTRELL, WALLACE                       |
| Examiner                | Art Unit                                |
| ABBAS RASHID            | 1774                                    |

| CPC- SEARCHED |        |          |  |
|---------------|--------|----------|--|
| Symbol        | Date   | Examiner |  |
| A47J 43/27    | 8/1/17 | AR       |  |

| CPC COMBINATION SETS - SEARCHED |      |          |
|---------------------------------|------|----------|
| Symbol                          | Date | Examiner |
|                                 |      |          |

| US CLASSIFICATION SEARCHED |          |        |          |
|----------------------------|----------|--------|----------|
| Class                      | Subclass | Date   | Examiner |
| 206                        | 219, 222 | 8/1/17 | AR       |
| 220                        | 23.87    | 8/1/17 | AR       |
| 366                        | 130      | 8/1/17 | AR       |

 $<sup>^{\</sup>star}$  See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

| SEARCH NOTES                 |        |          |
|------------------------------|--------|----------|
| Search Notes                 | Date   | Examiner |
| Inventor Search in EAST      | 8/1/17 | AR       |
| EAST Search History Attached | 8/1/17 | AR       |

| INTERFERENCE SEARCH     |                         |      |          |
|-------------------------|-------------------------|------|----------|
| US Class/<br>CPC Symbol | US Subclass / CPC Group | Date | Examiner |
| •                       |                         |      |          |

|  | /ABBAS RASHID/<br>Primary Examiner.Art Unit 1774 |
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