

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number
WO 2005/072116 A3

(51) International Patent Classification⁷: **B24D 15/04**,
A46B 17/02, A47L 13/22

(21) International Application Number:
PCT/US2005/001009

(22) International Filing Date: 12 January 2005 (12.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/758,722 16 January 2004 (16.01.2004) US
10/836,303 30 April 2004 (30.04.2004) US

(71) Applicant (for all designated States except US): **THE CLOROX COMPAPANY** [US/US]; P.O. Box 24305, Oakland, CA 94623-1305 (US).

(72) Inventors: **KILKENNY, Andrew**; P.O. Box 493, Pleasanton, CA 94588 (US). **RODRIGUEZ, Cheryl**; P.O. Box 493, Pleasanton, CA 94588 (US).

(74) Agents: **PETERSON, David** et al.; The Clorox Company, P.O. Box 24305, Oakland, CA 94623-1305 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

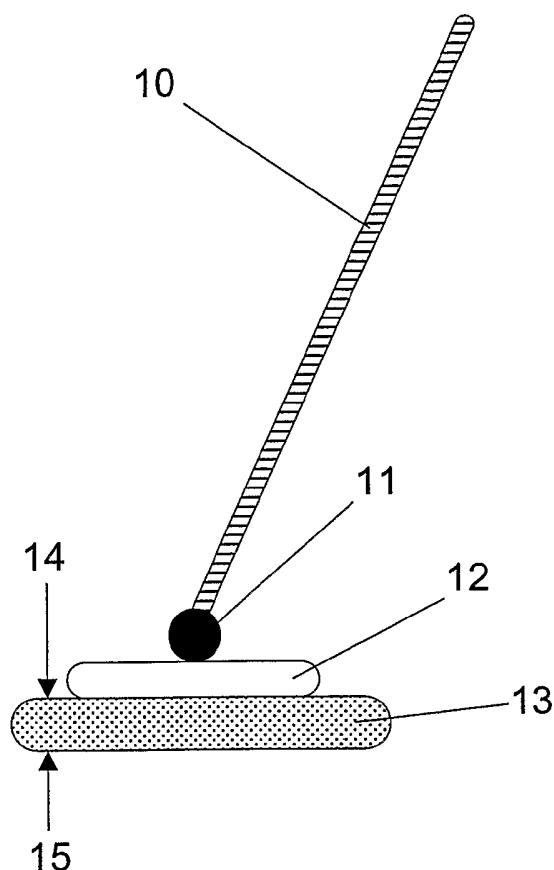
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, 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).

Published:

— with international search report

[Continued on next page]

(54) Title: MULTILAYER CLEANING PAD



(57) Abstract: A cleaning implement with a handle (10) and a removable cleaning pad (13) can be used to effectively clean surfaces. The cleaning pad comprises a scrubbing layer, an interior layer, and an attachment layer. The cleaning pad is impregnated with a cleaning composition and is substantially dry-to-the-touch. The cleaning implement may be a manual tool or a motorized tool. Examples of suitable cleaning implements include a hard surface floor mop, a carpet mop, an auto cleaning device, a toilet cleaning device, a bathroom cleaning device, and a shower cleaning device.



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

4 May 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/01009

| A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B24d 15/04; A46B 17/02; A47L 13/22 US CL : 015/104.93, 104.94, 228, 210.1; 134/6 <u>According to International Patent Classification (IPC) or to both national classification and IPC</u> | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|-----------------------|---|--|------|---|---|----|---|---|------|---|---|------|
| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 015/104.93, 104.94, 228, 210.1; 401/196; 134/6 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) East (pad, impregnate, substrate, hydrophilic, hydrophobic, cleaning, composition, shower, method, rinsing, wiping) | | | | | | | | | | | | | | | | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>US 2003/0126710 A (POLICICCHIO et al) 10 July 2003 (10.07.03), page 26, paragraph 300, page 33, paragraph 371, page 36, paragraph 393-394.</td> <td>1-37</td> </tr> <tr> <td>X</td> <td>US 2002/0007527 A (HART) 24 January 2002 (24.01.2002), page 1, paragraph 8, page 2, paragraph 28.</td> <td>34</td> </tr> <tr> <td>Y</td> <td>US 2,969,626 B (RUDES) 31 January 1961 (31.01.1961), column 1, lines 14-16, column 2, lines 45-65, column 3, lines 15-24.</td> <td>1-37</td> </tr> <tr> <td>Y</td> <td>US 4,852,201 B (WUNDROCK et al) 01 August 1989 (01.08.1989), column 5, lines 18-52.</td> <td>1-37</td> </tr> </tbody> </table> | | | Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. | X | US 2003/0126710 A (POLICICCHIO et al) 10 July 2003 (10.07.03), page 26, paragraph 300, page 33, paragraph 371, page 36, paragraph 393-394. | 1-37 | X | US 2002/0007527 A (HART) 24 January 2002 (24.01.2002), page 1, paragraph 8, page 2, paragraph 28. | 34 | Y | US 2,969,626 B (RUDES) 31 January 1961 (31.01.1961), column 1, lines 14-16, column 2, lines 45-65, column 3, lines 15-24. | 1-37 | Y | US 4,852,201 B (WUNDROCK et al) 01 August 1989 (01.08.1989), column 5, lines 18-52. | 1-37 |
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. | | | | | | | | | | | | | | | |
| X | US 2003/0126710 A (POLICICCHIO et al) 10 July 2003 (10.07.03), page 26, paragraph 300, page 33, paragraph 371, page 36, paragraph 393-394. | 1-37 | | | | | | | | | | | | | | | |
| X | US 2002/0007527 A (HART) 24 January 2002 (24.01.2002), page 1, paragraph 8, page 2, paragraph 28. | 34 | | | | | | | | | | | | | | | |
| Y | US 2,969,626 B (RUDES) 31 January 1961 (31.01.1961), column 1, lines 14-16, column 2, lines 45-65, column 3, lines 15-24. | 1-37 | | | | | | | | | | | | | | | |
| Y | US 4,852,201 B (WUNDROCK et al) 01 August 1989 (01.08.1989), column 5, lines 18-52. | 1-37 | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex. | | | | | | | | | | | | | | | | | |
| <table border="0"> <tr> <td> * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family </td> </tr> </table> | | | * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family | | | | | | | | | | | | | |
| * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family | | | | | | | | | | | | | | | | |
| Date of the actual completion of the international search 22 November 2005 (22.11.2005) | | Date of mailing of the international search report 06 JAN 2006 | | | | | | | | | | | | | | | |
| 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 Gary K. Graham DEBORAH A. THOMAS Telephone No. 571-272-1700 PARALEGAL SPECIALIST <i>Dea</i> | | | | | | | | | | | | | | | |