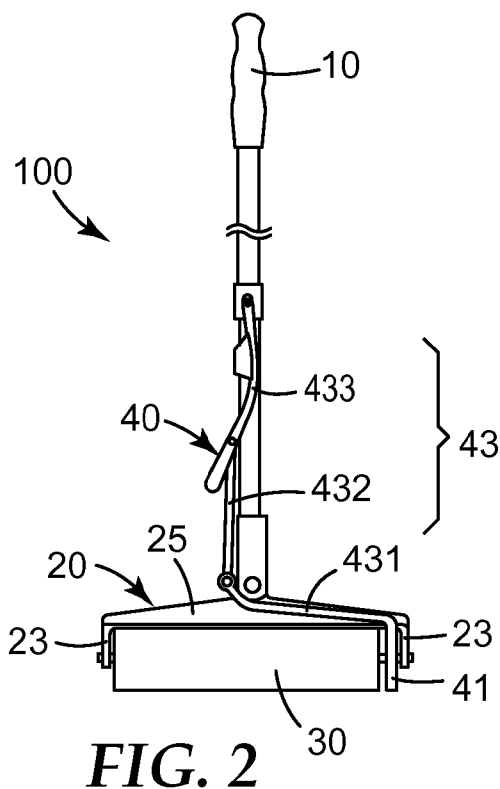




- (51) International Patent Classification:
A47L 13/20 (2006.01)
- (21) International Application Number:
PCT/US2012/035944
- (22) International Filing Date:
1 May 2012 (01.05.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
201110119675.4 4 May 2011 (04.05.2011) CN
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- (74) Agents: **ADAMSON, Trisha D.** et al.; 3M Center, Office of Intellectual Property Counsel, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).
- (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, QA, RO, RS, RU, RW, 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, 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,

[Continued on next page]

(54) Title: CLEANING MEMBER MOUNTING HOLDER FOR MOP AND MOP



(57) Abstract: A cleaning member mounting holder for a mop is disclosed. The cleaning member mounting holder comprises: a shaft for mounting a cleaning member, the shaft having opposite ends, and a pair of mounting members each having a hole, the opposite ends of the shaft being mounted in the holes of the pair of mounting members respectively, wherein the ends of the shaft are movable substantially perpendicularly to the shaft axis in the holes of the pair of mounting members.



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *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))*

Published:

— *with international search report (Art. 21(3))*

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

31 January 2013

A. CLASSIFICATION OF SUBJECT MATTER*A47L 13/20(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)

A47L 13/20; A47L 11/29; A47L 13/10; B62D 43/02; A47L 13/00

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: cleaning member mounting holder, mop, shaft, shaft axis, water squeeze device

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 04875246A A (MACGREGOR; FRANCIS W.) 24 October 1989. See abstract, columns 3-4, and figures 1-3.	1-7, 11-12, 18-22
A	US 2011-0047733 A1 (JIANG WEILAI . et al.) 03 March 2011. See abstract, paragraphs [0022]-[0033], and figures 1-2.	1-7, 11-12, 18-22
A	JP 03-104486 U (Rim Myeonghyeon) 30 October 1991. See abstract, paragraphs [0001]-[0002], and figures 2-4.	1-7, 11-12, 18-22
A	KR 20-0274816 Y1 (Park Sangseon) 11 May 2002. See abstract, page 2, and figure 1.	1-7, 11-12, 18-22



Further documents are listed in the continuation of Box C.



See patent family annex.

* 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 but 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 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

28 NOVEMBER 2012 (28.11.2012)

Date of mailing of the international search report

28 NOVEMBER 2012 (28.11.2012)

Name and mailing address of the ISA/KR

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City, 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KYE, Won Ho

Telephone No. 82-42-481-8375



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/035944

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 04875246A A	24.10.1989	US 04959628A A	25.09.1990
US 2011-0047733 A1	03.03.2011	CN 101496709 A	05.08.2009
		EP 2244624 A1	03.11.2010
		JP 2011-519283 A	07.07.2011
		KR 10-2010-0111301 A	14.10.2010
		WO 2009-097326 A1	06.08.2009
JP 03-104486 U	30.10.1991	JP H031-04486 U0	30.10.1991
KR 20-0274816 Y1	11.05.2002	None	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/035944**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 14-17
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

Claims 14-17 are not enough to make meaningful search possible, because they substantially depends on the multiple dependent claims which does not comply with Rule 6.4(a).
3. ☒ Claims Nos.: 8-10, 13
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.