## (19) World Intellectual Property Organization

International Bureau



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# (43) International Publication Date 21 December 2006 (21.12.2006)

# (10) International Publication Number WO 2006/134391 A3

(51) International Patent Classification:

**E03C 1/02** (2006.01) **A61H 33/00** (2006.01) **F16K 11/20** (2006.01) **G05D 23/13** (2006.01)

(21) International Application Number:

PCT/GB2006/002233

(22) International Filing Date: 19 June 2006 (19.06.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

0512412.8 17 June 2005 (17.06.2005) GB

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(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, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, 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.

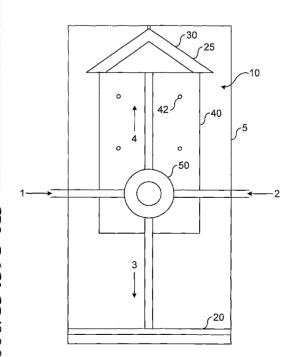
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, 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
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

#### (54) Title: MULTIPLE OUTLET WATER MIXING UNIT AND SHOWER UNIT FOR USE IN HYDROTHERAPY



(57) Abstract: A multiple outlet water mixing unit (50) comprising a housing (45) having a hot water inlet (1) and a cold water inlet (2). The Unit also comprises a plurality of water mixer valves (65, 66) located within the housing (45) each supplied by the hot water inlet (1) and the cold water inlet (2) and supplying a respective water outlet (3, 4), each water mixer valve (65, 66) being operable to mix water received from the hot and cold water inlets in varying proportions, and at least one controller (51) to control the valves and hence the relative proportions of hot and cold water fed to each water outlet (3, 4). A shower unit (10) having at least one water dispensing means (30) and a water mixer (50) with hot and cold water inlets (1, 2) and a plurality of outlets (3, 4) is also disclosed.

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## $\textbf{(88)} \ \ \textbf{Date of publication of the international search report:}$

21 December 2007

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/GB2006/002233

A. CLASSIFICATION OF SUBJECT MATTER INV. E03C1/02 F16K1 F16K11/20 A61H33/00 G05D23/13 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) E03C F16K G05D A47K F24D A61H 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 practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category\* US 4 688 273 A (LYNG BJOERN [NO]) 25 August 1987 (1987-08-25) 1,4,5 the whole document 19,23 JP 59 100319 A (MITSUBISHI ELECTRIC CORP) X 1,4 9 June 1984 (1984-06-09) abstract WO 03/023155 A (ANDREOTTI PAOLO [IT]) 1,4 X 20 March 2003 (2003-03-20) the whole document DE 197 02 358 A1 (GROHE KG HANS [DE]) 6.9 - 18X 30 July 1998 (1998-07-30) the whole document -/--See patent family annex. Further documents are listed in the continuation of Box C. Special categories of cited documents : '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 \*A\* document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another citation or other special reason (as specified) "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. O' document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 25 October 2007 05/11/2007 Name and mailing address of the ISA/ Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Millward, Richard

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## **INTERNATIONAL SEARCH REPORT**

International application No
PCT/GB2006/002233

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International application No. PCT/GB2006/002233

#### **INTERNATIONAL SEARCH REPORT**

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:							
Claims Nos.:     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:							
3. Claims Nos.: 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:							
see additional sheet							
As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.							
2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.							
3. As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers 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.							

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5

Water mixing unit comprising a housing with hot and cold water inlets a plurality of mixer valves a controller and a plurality of pre-mixer valves

2. claims: 6-18

A shower unit comprising a water dispensing means and "an auxiliary site", supplied by separate outlets of a mixer having a plurality of mixing valves

3. claims: 19-26

Water mixing unit comprising a splitter to split a water inlet into 2 streams a heater for heating one stream

#### INTERNATIONAL SEARCH REPORT

Information on patent family members

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