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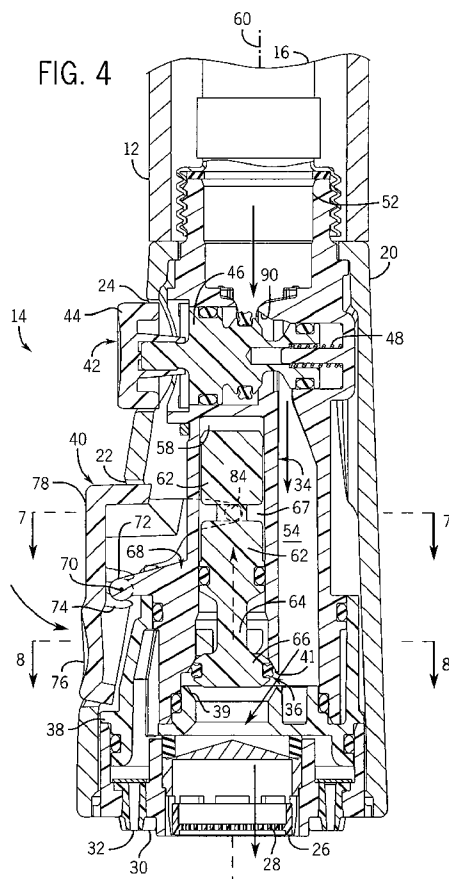
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(54) Title: FAUCET SPRAY CONTROL ASSEMBLY



(57) Abstract: A pull-out faucet has a spray head with spray selection and pause control. A spring-loaded push button interrupts outlet spray entirely as long as it is being depressed. A rocker button (40) controls spray through inner and outer sets of outlet orifices, for example, giving the user the option of an aerated water jet or an unaerated shower. The rocker button mounts, on an integral pivot post (68) of a valve body that houses a diverter valve (62) that is controlled by the rocker button. The rocker button has a pair of legs (80, 82) that extend through openings in the valve body to engage a groove (67) in the diverter valve. Pivoting the rocker button about a pivot axis by depressing either its forward or aft portion, moves the diverter valve along a valve axis to route flow to either the inner or outer orifices.



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, MT, NL, PL,
PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

INV. B05B1/16 B05B1/18 B05B1/30 B05B12/00 E03C1/04
F16K11/044

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)

B.05B E03C F16K

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/020302 A1 (BOSIO ORLANDO [IT]) 13 September 2001 (2001-09-13) cited in the application	1-4
Y		10-13, 15-20
A	paragraphs [0019] - [0021] figure 2	5-9
X	US 5 383 604 A (BOESCH PAUL [CH]) 24 January 1995 (1995-01-24) columns 2-4; figures 1-4	1-9, 14
X	US 6 085 790 A (HUMPERT JUERGEN [DE] ET AL) 11 July 2000 (2000-07-11) columns 3-4; figures 2, 9, 10	1-8

☒ 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 document 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 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

"X¹" 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

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Date of mailing of the international search report

08/07/2008

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INTERNATIONAL SEARCH REPORT

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 453 680 A (EGRO AG [CH]) 7 November 1980 (1980-11-07) pages 4,5; figure 2 -----	1-5
P ₅ X	EP 1 825 919 A (NOBILI FABRIZIO [CH]) 29 August 2007 (2007-08-29) paragraph [0020] figure 4 -----	1,2,5, 10-13
Y	EP 1 418 008. A (MOEN INC [US]) 12 May 2004 (2004-05-12) paragraphs [0042] - [0044]; figure 21 -----	10-13, 15-20

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/019775

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.:
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

1. ☒ 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 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.

FURTHER INFORMATION CONTINUED FROM PCT/ASA/ 210

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

1. claims: 1-9,14

Diverter control assembly.

2. claims: 10-13,15-20

Pause control assembly.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/019775

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