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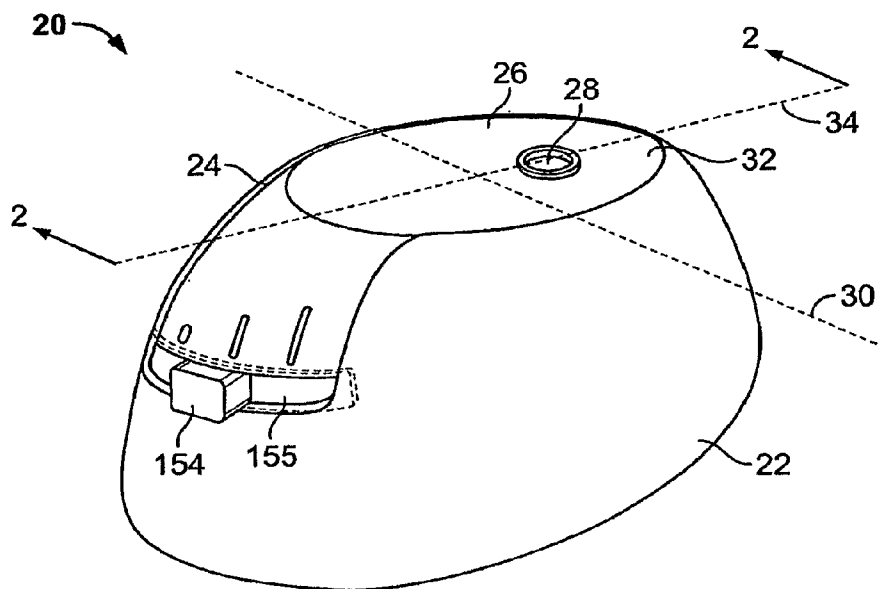
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(54) Title: DIFFUSION DEVICE



(57) Abstract: A diffusion device (20) includes a housing (22) having a battery disposed therein and adapted to receive a replaceable fluid reservoir for holding a fluid, wherein the fluid reservoir includes a wick for movement of the fluid to a discharge end thereof. The diffusion device (20) further includes a piezoelectric element energized by a power source for vibrating a perforated orifice plate disposed adjacent the discharge end of the wick, wherein the piezoelectric element develops vibratory movement to pump the fluid from the discharge end through the perforated discharge plate and into the atmosphere. A control circuit and light emitting diode ("LED") are disposed in the housing, wherein the control circuit energizes the LED at a particular frequency when the dispenser is active and a voltage developed by the battery is above a threshold voltage.

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# INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. B05B17/06

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)  
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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

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X	WO 03/068413 A (SARA LEE DE NV [NL]; MIRO AMENOS JORDI [ES]; MARTINEZ RODRIQUEZ ELISAB) 21 August 2003 (2003-08-21) page 8, line 16 - page 20, line 20; figures 1-18 -----	1-5, 10-16, 20
X	WO 2004/010762 A (JOHNSON & SON INC S C [US]; WALTER SCOTT D [US]; WOLF JEFFREY J [US];) 5 February 2004 (2004-02-05) pages 6-23; figures 3-7 -----	1-5, 10-16, 20
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Further documents are listed in the continuation of Box C.  See patent family annex.

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| <p>* Special categories of cited documents :</p> <ul style="list-style-type: none"> <li>*A* document defining the general state of the art which is not considered to be of particular relevance</li> <li>*E* earlier document but published on or after the international filing date</li> <li>*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)</li> <li>*O* document referring to an oral disclosure, use, exhibition or other means</li> <li>*P* document published prior to the international filing date but later than the priority date claimed</li> </ul> | <ul style="list-style-type: none"> <li>*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</li> <li>*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</li> <li>*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.</li> <li>*Z* document member of the same patent family</li> </ul> |
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Date of the actual completion of the international search  <p style="text-align: center;">10 December 2007</p>	Date of mailing of the international search report  <p style="text-align: center;">18/12/2007</p>
Name and mailing address of the ISA/ 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	Authorized officer  <p style="text-align: center;">Brito, Fernando</p>

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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