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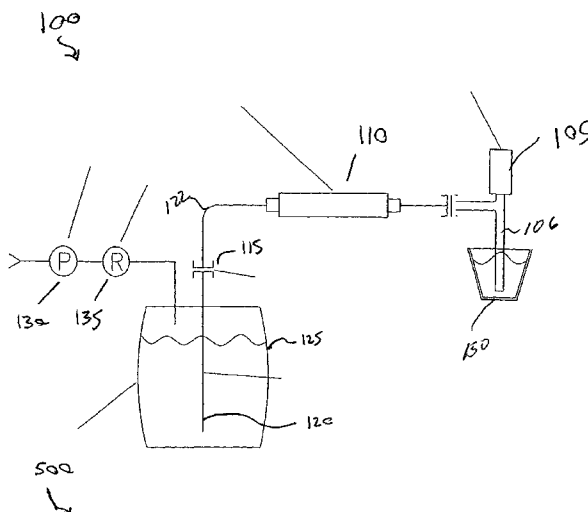
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- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) **Title:** BEVERAGE DISPENSING



(57) **Abstract:** A beverage dispenser (100) for dispensing a carbonated beverage from a beverage source (125) into a receptacle (150) includes a housing defining an interior volume and having a first surface proximal to the beverage source and a second surface distal to the beverage source. The beverage dispenser further includes a conduit (122) in fluid communication with the beverage source entering the first surface of the housing and terminating proximate the second surface of the housing. The dispenser also includes a multi-nodal flow rate controller (110) disposed within the interior volume of said housing in contact with said conduit and a subsurface dispensing nozzle (105) in fluid communication with the terminal end of the conduit. The flow through the conduit to the subsurface dispensing nozzle is compensated to maintain substantially hydraulic beverage flow within the conduit by adjusting the contact between the multi-nodal flow rate controller and the conduit.

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26 June 2008

**INTERNATIONAL SEARCH REPORT**

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> INV. G05D7/06 B67D1/14				
According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b>				
Minimum documentation searched (classification system followed by classification symbols) B67D G05D 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				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
P, X	GB 2 415 763 A (DIAGEO IRELAND [IE]) 4 January 2006 (2006-01-04)  abstract figures 1-4 pages 1,6  ----- -/--	1, 4, 5, 38, 40, 58, 64-66, 70, 74, 126		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <span style="margin-left: 200px;"><input checked="" type="checkbox"/> See patent family annex.</span>				
* Special categories of cited documents :  <table style="width:100%; border:none;"> <tr> <td style="width:50%; vertical-align: top;">                     "A" document denning 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                 </td> <td style="width:50%; vertical-align: top;">                     "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.                      "&amp;" document member of the same patent family                 </td> </tr> </table>			"A" document denning 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 "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
"A" document denning 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 "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		Date of mailing of the international search report		
14 February 2008		06/05/2008		
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  Groen, Fokke		

INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2006/062202

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	<p>EP 1 099 661 A (NIAGARA PUMP CORP [US]) 16 May 2001 (2001-05-16)</p> <p>figures 9-13,32 paragraph [0060] - paragraph [0062] paragraph [0108] - paragraph [0112] -----</p>	<p>1-7, 15-19, 38-40, 49,58, 64-66, 74,126</p>
Y	<p>GB 649 146 A (AMERICAN CYANAMID CO) 17 January 1951 (1951-01-17)</p> <p>page 3, line 64 - line 136; figures 1-3 -----</p>	<p>1-7, 15-19, 38-40, 49,58, 64-66, 74,126</p>
A	<p>US 2004/177893 A1 (YOUNKLE MATTHEW C [US]) 16 September 2004 (2004-09-16)</p> <p>the whole document -----</p>	<p>1-7, 15-19, 38-40, 49,58, 64-66, 74,126</p>
A	<p>WO 98/31935 A (PHALLEN IVER J [US]; VOGT DOUGLAS N [US]) 23 July 1998 (1998-07-23)</p> <p>figures 5,13,14,21-23 -----</p>	<p>1-7, 15-19, 38-40, 49,58, 64-66, 74,126</p>

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2006/062202

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 IMOS:  
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  onnlly thooRsPe Claiimss foorr whtHichI fsefieRs waerne paaIind, snpsercilfimcallvy claaIimms 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.:

1-7,9, 15-19,38-40,49,58-67,69-75,126

- 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: 1-7,9,15-19,38-40,49, 58-67,69-75,126

Beverage dispenser comprising a multi-nodal flow rate controller.

2. claims: 8,50-57,123-125

Beverage dispenser comprising a user interface.

3. Claims: 10-11

Beverage dispenser working in active or passive mode.

4. Claims: 12, 13, 41-48

Beverage dispenser comprising a movable nozzle.

5. claims: 14,28-37

Beverage dispenser comprising a flow controller selected to minimise gas beak-out.

6. claims: 20,127-130

Beverage dispenser comprising a multi-node flow controller generating a turbulent flow.

7. claims: 21-24

Beverage dispenser comprising a horizontal mounting surface.

8. claim: 25

Beverage dispenser capable of filling a pint of 0,5 liter in about 3,5 seconds or less.

9. claim: 26

Beverage dispenser comprising a nozzle coated with an anti-bacterial coating.

10. claim: 27

FURTHER INFORMATION CONTINUED FROM PCT/ASA/ 210

Beverage dispenser wherein substantially all portions of the fluid flow pathway are configured to be selfdraining

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11. claim: 68

Beverage dispensing apparatus wherein the dispensing nozzle includes a volumetric displacement.

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12. claims: 76-78

Method for minimizing gravimetric fallout in a fluid dispensing system.

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13. claims: 79-117,131

Method of controlling the quantity of foam during a beverage dispensing event.

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14. claims: 118-122,132,132

Method for initiating a beverage dispensing event.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2006/062202

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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