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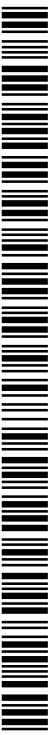
AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, 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.

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(54) Title: FLOW COMPENSATOR

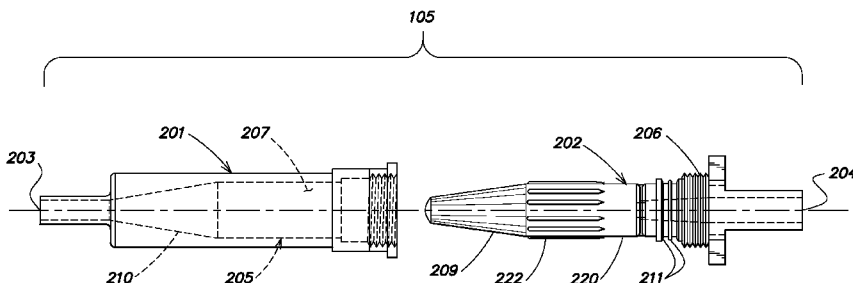




FIG. 2A

(57) Abstract: An apparatus is disclosed including: a housing including a conduit having an inlet port and an outlet port; an insert at least partially disposed within the conduit and including a tapered portion extending from a narrower end proximal the inlet port to a wider end distal the inlet port; and a facility for adjusting the position of the insert within the conduit. In some embodiments, the apparatus is configured to receive a mixed flow of liquid and gas at the inlet port, direct the mixed flow through the conduit around a portion of the insert disposed within the chamber, and outlet the mixed flow at the outlet port.

## INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/US2012/043708**

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
<i>B01F 5/06(2006.01)i, B01F 15/02(2006.01)i, B01F 15/04(2006.01)i, B01F 3/04(2006.01)i</i>		
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) B01F 5/06; A23L 2/54; B01F 3/04; B01F 13/02		
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 Chinese 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) KOMPASS(KIPO internal) & Keywords: conduit, mix, liquid, gas, flow, and chamber		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2009-0026637 A1 (GOLTENBOTH, FRANK et al.) 29 JANUARY 2009 See abstract; paragraphs [0007] - [0031]; figures 1-2.	1-5
A	WO 2000-007707 A1 (LANCER PARTNERSHIP LTD.) 17 FEBRUARY 2000 See abstract; claims 1-18.	1-5
A	US 2006-0280027 A1 (FULTON, JOHN L.) 14 DECEMBER 2006 See abstract; paragraphs [0031] - [0041]; figures 1, 6.	1-5
A	US 2007-0257378 A1 (SPIEGEL, PASQUALE) 8 NOVEMBER 2007 See abstract; paragraphs [0027] - [0036]; figure 2.	1-5
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> 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 24 JANUARY 2013 (24.01.2013)		Date of mailing of the international search report <b>28 JANUARY 2013 (28.01.2013)</b>
Name and mailing address of the ISA/KR  Korean Intellectual Property Office 189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea Facsimile No. 82-42-472-7140		Authorized officer RYU, Chang Yong Telephone No. 82-42-481-5546 

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/043708

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.: 7, 10, 11, 13, 17, 21, 24, 27-29  
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 7, 10, 11, 13, 17, 21, 24, and 27-29 are not to make meaningful search, because the claims refer multiple dependent claim.
  
- 3.  Claims Nos.: 6, 8, 9, 12, 14-16, 18-20, 22-23, 25-26, 30-31  
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.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2012/043708**

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