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(54) Title: APPARATUS AND METHOD FOR POSITIONING A DISCHARGE TUBE WITH RESPECT TO AN ORIFICE

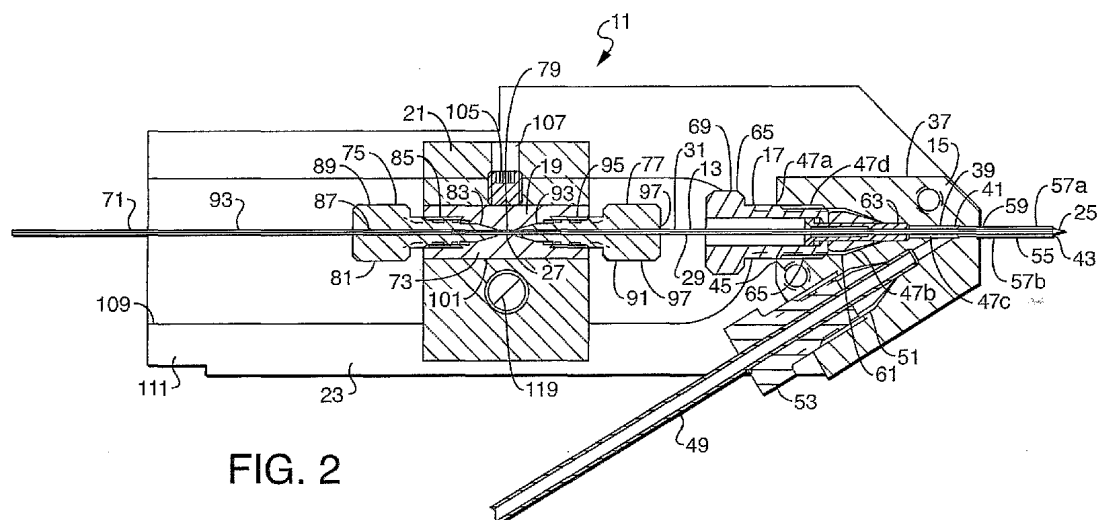


FIG. 2

(57) Abstract: Embodiments of the present invention facilitate servicing or changing a discharge tube or modifying the position of a discharge tube with respect to a orifice of a detector and/or a nebulizing gas conduit. The apparatus features a discharge tube housing that slidably receives a discharge tube. A union coupling the discharge tube to a source of fluid is slidably mounted to a mounting assembly holding the tube housing.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/04037

A. CLASSIFICATION OF SUBJECT MATTER

IPC: H01J 49/26(2006.01);H01J 49/00(2006.01);H01J 27/00(2006.01);B01D 59/44(2006.01)

USPC: 250/281,282,283,288,289,299,423R,424,425,428

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)

U.S. : 250/281,282,283,288,289,299,423r,424,425,428

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 practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,410,915 B1 (BATEMAN et al.) 25 June 2002 (25.06.2002) related invention, not particularly relevant	1-57
A	US 7,091,493 B2 (HIRAOKA) 15 August 2006 (15.08.2006) related invention, not particularly relevant	1-57
A	US 5,349,186 A (IKONOMON et al.) 20 September 1994 (20.09.1994) related invention, not particularly relevant	1-57
A	US 4,607,163 (MIZUNO) 19 August 1986 (19.08.1986) related invention, not particularly relevant	1-57
A	US 5,192,865 (ZHU) 09 March 1993 (09.03.1993) related invention, not particularly relevant	1-57

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