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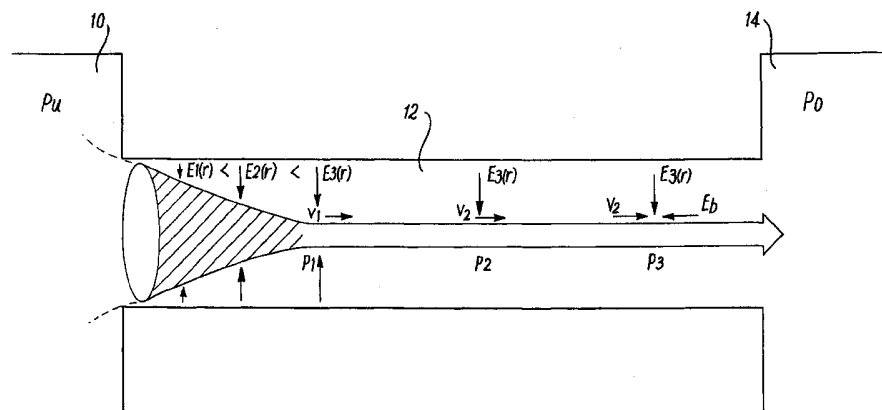
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(54) Title: ION EXTRACTION



(57) Abstract: There is disclosed a method of extracting ions comprising the steps of: providing a source of ions; entraining said ions in a laminar flow of a carrier gas; providing a barrier region in which an electrical field is applied across the laminar flow of carrier gas, the magnitude and direction of the electrical field being selected so as to prevent at least some of the ions entrained in the laminar flow from passing through the electrical field; and varying the electrical field so as to allow ions of chosen characteristics to pass through the electrical field.



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INTERNATIONAL SEARCH REPORT

International Application No
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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01J49/42 G01N27/64

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)

IPC 7 H01J G01N

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, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 486 469 B1 (FISCHER STEVEN M ET AL) 26 November 2002 (2002-11-26)	1-8, 13, 14, 17-22, 24-31, 33-38
Y	abstract column 3, lines 5-50 column 5, lines 1-58; figures 4,5 column 6, line 42 - column 7, line 50; figure 6 column 9, line 30 - column 10, line 33	9-12, 15, 16, 32
Y	US 2002/175279 A1 (HAGER JAMES) 28 November 2002 (2002-11-28) page 4, right-hand column, paragraph 53 ----- -/--	9-12, 32

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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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.
Y	US 4 283 626 A (SIEGEL ET AL) 11 August 1981 (1981-08-11) cited in the application column 1, line 60 - column 2, line 45 -----	15, 16
A	US 5 847 386 A (THOMSON ET AL) 8 December 1998 (1998-12-08) cited in the application column 11, line 45 - column 12, line 67; figure 29 -----	1-41
A	US 3 935 452 A (PRINCE ET AL) 27 January 1976 (1976-01-27) the whole document -----	1-41
A	GERLICH D.: "State-Selected and State-to-State Ion-Molecule Reaction Dynamics. Part 1: Experiment" 1992, WILEY, XP002339690 ISBN: 0-471-53258-4 cited in the application pages 1-176 -----	1-41

INTERNATIONAL SEARCH REPORT

Information on patent family members

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