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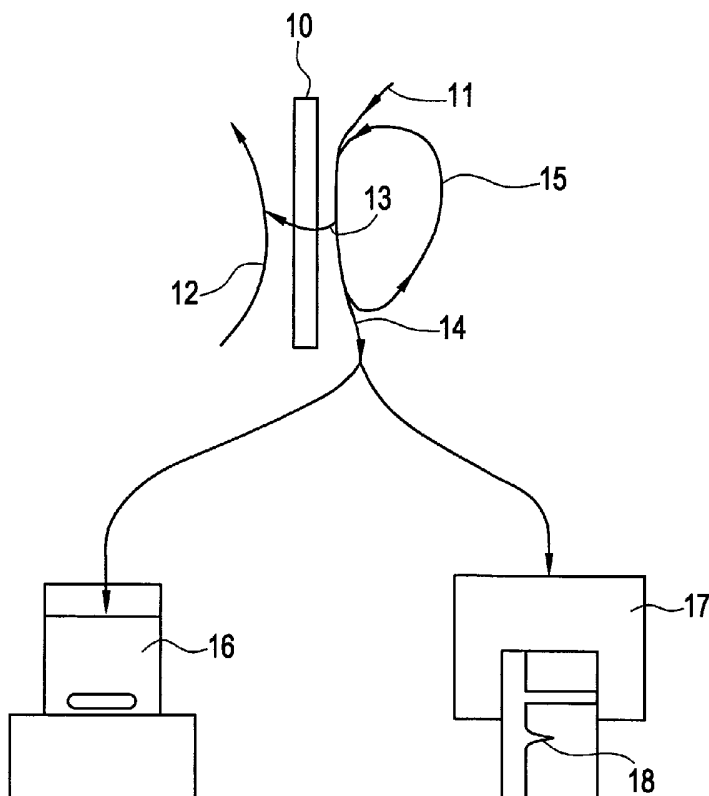
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(54) Title: METHOD AND APPARATUS FOR DETERMINATION OF WATER AND FOR NORMAL PHASE LIQUID CHROMATOGRAPHY



(57) Abstract: A method for calibrating an analysis instrument, e.g., a gas chromatograph, for water analysis that includes four steps. The first step is to continuously remove water from a liquid that contains water to produce a liquid containing a reduced amount of water such as by membrane pervaporation. The second step is to analyze the liquid containing a reduced amount of water for water by a reference water analysis method such as by Karl Fischer titration. The third step is to analyze the stream of liquid containing a reduced amount of water using the instrument to be calibrated, e.g., a gas chromatograph having a helium photoionization pulse discharge detector. The fourth step is to calibrate the instrument using the analysis of the second step. In a related embodiment, a system for normal phase chromatography.



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 A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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 IPC 7 GOIN

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, SCISEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	J. JALBERT ET AL.: "simultaneous determination of dissolved gases and moisture in mineral insulating oils by static headspace gas chromatography with helium photoionization pulsed discharge detector" ANALYTICAL CHEMISTRY.A., vol. 73, no. 14, 19 June 2001 (2001-06-19), pages 3382-3391, XP002232793 AMERICAN CHEMICAL SOCIETY. COLUMBUS., US page 3384, column 2, last paragraph --- -/--	1

 Further documents are listed in the continuation of box C.

 Patent family members are listed in annex.

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- *A* document defining 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
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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.
A	R. GILBERT ET AL.: "BIAS ASSESSMENT OF CURRENT TECHNOLOGIES USED FOR THE DETERINATION OF LOW LEVELS OF MOISTURE IN MINERAL OIL SAMPLES" ANALYTICAL CHEMISTRY.A., vol. 73, no. 3, 1 February 2001 (2001-02-01), pages 520-526, XP001092880 AMERICAN CHEMICAL SOCIETY. COLUMBUS., US cited in the application page 521, column 1, paragraph 2 -----	1
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