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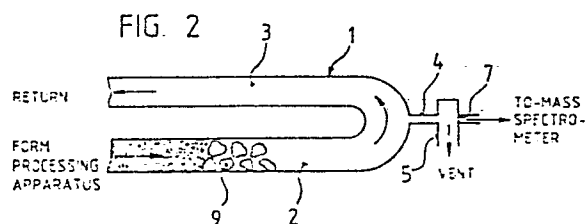
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54 Analytical apparatus.

57 The instant invention relates to a mass spectrometer having an inlet leak (7) and a flow-by sampling arrangement. In accordance with the invention, aerosols and solid impurities are removed from the sample by packing a portion of the flow-by tubing (1) prior to the inlet capillaries (4) or the inlet leak (7) of the mass spectrometer with a packing material coated with a suitable nonvolatile liquid (9). The packing must have the spaces between the particles thereof small enough to remove fine particles while still permitting adequate flow. With this apparatus the solids are collected by simple filtration through the packing material while the aerosols flowing into the packing are partitioned into the nonvolatile liquid coating the particles and are released at a later time into the sample stream as a vapor or gas.





European Patent
Office

EUROPEAN SEARCH REPORT

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Application number

EP 85 10 8792

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
Y	US-A-4 008 388 (F.W. McLAFFERTY) * Abstract; figures 2a, 2b, 3; column 9, line 44 - column 10, line 40 *	1, 2, 11	H 01 J 49/04
A	---	3, 7, 8	
Y	JOURNAL OF CHROMATOGRAPHY, vol. 42, 1969, pages 319-335, Amsterdam, NL; W.A. AUE et al.: "Preparation and chromatographic uses of surface-bonded silicones" * Summary; introduction; table II, IV (percentage load) *	1, 2, 11	
A	Idem	4	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
A	---	1, 3, 11	H 01 J G 01 N B 01 J
A	US-A-4 298 795 (T. TAKEUCHI) * Abstract; figure 1 *	1, 3, 11	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 09-07-1987	Examiner WINKELMAN, A.M.E.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A, D	US-A-3 648 047 (B.M. BUSHMAN) * Abstract *	1, 3, 11	
A	AT-A- 346 286 (STREET) * Page 2, lines 7-14; page 2, lines 42-53; claim 1 * -----	1, 4, 11	
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