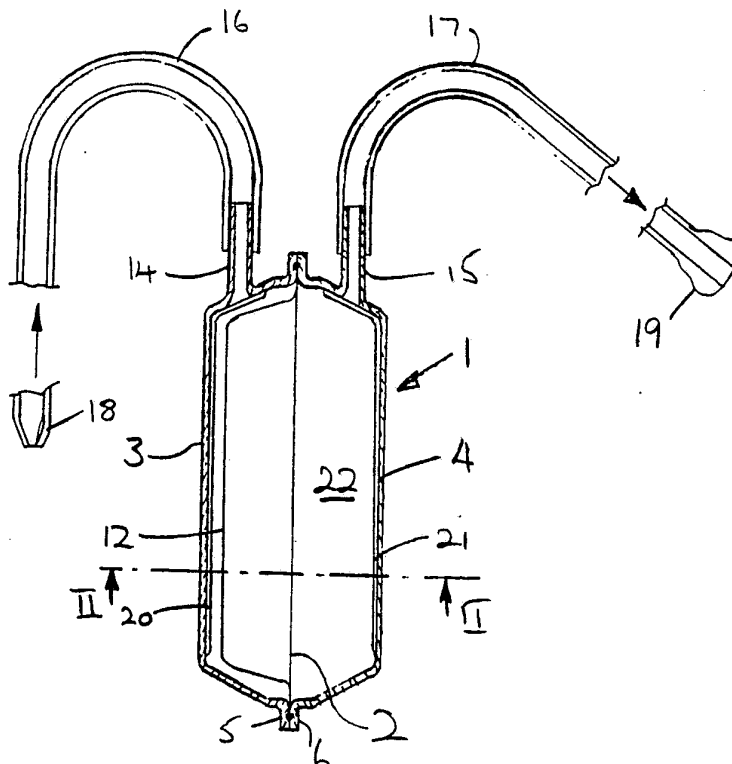




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(54) Title: FLUID EXTRACTOR**(57) Abstract**

A mucus extractor comprises a symmetric vessel (1) with an inlet connection (14) for a mucus tube (16) and an outlet connection (15) for a suction tube (17). The diaphragm (12) peripheral is captive at the plane of symmetry. The diaphragm (12) is separating a space (22) to be collapsed by suction from a receiving space (23) into which mucus is drawn by the suction. The effect of the diaphragm (12) is to prevent mucus from entering the suction tube (17) which could be both unpleasant and dangerous.

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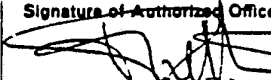
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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 88/01122

I. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) ⁶		
According to International Patent Classification (IPC) or to both National Classification and IPC		
IPC ⁴ : A 61 M 1/00		
II. FIELDS SEARCHED		
Minimum Documentation Searched ⁷		
Classification System	Classification Symbols	
IPC ⁴	A 61 M	
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched ⁸		
III. DOCUMENTS CONSIDERED TO BE RELEVANT ⁹		
Category ⁹	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. ¹³
X	FR, A, 2346238 (RHONE-POULENC INDUSTRIES) 28 October 1977 see page 2, line 14 - page 3, line 9; claims 1-3,5; figure 2	1,2,14
Y	--	3-5,15
Y	US, A, 4058123 (MAY) 15 November 1977 see column 3, line 66 - column 4, line 1; column 4, line 25 - column 6, line 12; figures 1,3-5	3-5
Y	GB, A, 1273742 (AHTERLEY) 10 May 1972 see page 2, lines 6-25; figure 1 cited in the application	15
A	FR, A, 1214265 (PARKINSON COWAN LTD) 7 April 1960 see page 2, column 1, line 28 - column 2, line 36; figure 2	3

¹⁰ 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 document 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 another 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 "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		
IV. CERTIFICATION		
Date of the Actual Completion of the International Search		Date of Mailing of this International Search Report
31st March 1989		6 JUL 1989
International Searching Authority		Signature of Authorized Officer
EUROPEAN PATENT OFFICE		 P.C.G. VAN DER PUTTEN

FURTHER INFORMATION CONTINUED FROM THE SECOND SHEET

V. ☐ OBSERVATIONS WHERE CERTAIN CLAIMS WERE FOUND UNSEARCHABLE ¹

This International search report has not been established in respect of certain claims under Article 17(2) (a) for the following reasons:

1. ☐ Claim numbers because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claim numbers 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:

3. ☐ Claim numbers because they are dependent claims and are not drafted in accordance with the second and third sentences of PCT Rule 6.4(a).

VI. ☒ OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING ²

This International Searching Authority found multiple inventions in this international application as follows:

1. Claims 1-3 and 4,5,13-15: Symmetric vessel, figures 1-6
2. Claims 1-3 and 6-12,13-15: Non symmetric vessel with tubular diaphragm, figures 7-9

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims of the international application.
2. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims of the international application for which fees were paid, specifically claims:

3. ☒ 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 claim numbers:
1-3 and 4,5,13-15
4. ☐ As all searchable claims could be searched without effort justifying an additional fee, the International Searching Authority did not invite payment of any additional fee.

Remark on Protest

- ☐ The additional search fees were accompanied by applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

**ANNEX TO THE INTERNATIONAL SEARCH REPORT
ON INTERNATIONAL PATENT APPLICATION NO.**

GB 8801122

SA 26085

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on 15/06/89. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR-A- 2346238	28-10-77	JP-A- 52120593	11-10-77
US-A- 4058123	15-11-77	US-A- 4112947	12-09-78
GB-A- 1273742	10-05-72	None	
FR-A- 1214265		None	