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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 93/03030

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 Int.C1.5 A 61 B 5/087		
II. FIELDS SEARCHED		
Minimum Documentation Searched ⁷		
Classification System	Classification Symbols	
Int.C1.5	A 61 B	
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched ⁸		
III. DOCUMENTS CONSIDERED TO BE RELEVANT⁹		
Category ^o	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. ¹³
X A A A	<p>US,A,5038773 (NORLIEN ET AL.) 13 August 1991 see column 1, line 36 - column 2, line 20 see column 4, line 21 - column 7, line 34 see figures</p> <p style="text-align: center;">---</p> <p>EP,A,0437055 (GLAXO AUSTRALIA PTY., LTD.) 17 July 1991 see column 3, line 7 - column 6, line 31 see figures 1-6B</p> <p style="text-align: center;">---</p> <p>EP,A,0328415 (SHERWOOD MEDICAL COMPANY) 16 August 1989 see page 3, line 1 - page 2, line 48 see figures 1-3</p> <p style="text-align: center;">--- -/-</p>	<p>1, 15</p> <p>4, 7, 9, 17</p> <p>1, 6-8, 11-13, 15, 17</p> <p>1, 6, 9, 12, 15, 16</p>
<p>^o Special categories of cited documents : ¹⁰</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"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</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step</p> <p>"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.</p> <p>"&" document member of the same patent family</p>		
IV. CERTIFICATION		
Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report	
29-07-1993	08. 12. 93	
International Searching Authority	Signature of Authorized Officer	
EUROPEAN PATENT OFFICE	Ms. Milena BACKUND	

III. DOCUMENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SECOND SHEET)		
Category °	Citation of Document, with indication, where appropriate, of the relevant passages	Relevant to Claim No.
A	WO,A,8912423 (ADX SYSTEMS PTY LIMITED) 28 December 1989 see page 3, line 11 - page 16, line 37 see figures -----	1,7,8, 15,17

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 93/03030

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

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

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
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. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

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

1. CLAIMS: 1-17
2. CLAIMS; 18-22

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. 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 claims Nos.:

Remark on Protest

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

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

US 9303030
SA 72280

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 15/11/93. 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
US-A- 5038773	13-08-91	DE-A- 4118404	12-12-91
		GB-A- 2246865	12-02-92
		JP-A- 5111473	07-05-93
EP-A- 04077	17-07-91	US-A- 5137026	11-08-92
		AU-B- 636183	22-04-93
		AU-A- 6799490	11-07-91
		JP-A- 4028350	30-01-92
EP-A- 0328000	16-08-89	AU-A- 2982789	10-08-89
		JP-A- 1244736	29-09-89
		US-A- 5058601	22-10-91
		US-A- 5170798	15-12-92
WO-A- 8912423	28-12-89	None	