



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁵ : A61K 47/48	A3	(11) International Publication Number: WO 91/11201 (43) International Publication Date: 8 August 1991 (08.08.91)
(21) International Application Number: PCT/GB91/00104 (22) International Filing Date: 24 January 1991 (24.01.91) (30) Priority data: 9001641.1 24 January 1990 (24.01.90) GB (71) Applicant (for all designated States except US): IMPERIAL CANCER RESEARCH TECHNOLOGY LIMITED [GB/GB]; Sardinia House, Sardinia Street, London WX2A 3NL (GB). (72) Inventors; and (75) Inventors/Applicants (for US only) : EPENETOS, Agamem- non, Antoniou [GB/GB]; ROWLINSON-BUSZA, Gail [GB/GB]; Imperial Cancer Research Fund, Department of Clinical Oncology, Royal Postgraduate Medical School, Hammersmith Hospital, Du Cane Road, London W12 0HS (GB).		(74) Agent: BASSETT, Richard, S.; Eric Potter & Clarkson, St Mary's Court, St Mary's Gate, Nottingham NG1 1LE (GB). (81) Designated States: AT (European patent), BE (European patent), CH (European patent), DE (European patent), DK (European patent), ES (European patent), FR (Eu- ropean patent), GB, GB (European patent), GR (Euro- pean patent), IT (European patent), JP, LU (European patent), NL (European patent), SE (European patent), US. Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i> (88) Date of publication of the international search report: 5 September 1991 (05.09.91)
(54) Title: COMPOUNDS (57) Abstract <p>A conjugate compound comprises a cell-specific portion, such as an antibody specific to tumour cell antigens, and an enzymatically active portion which will cleave a cyanogenic compound to release cyanide. Enzymes such as β-glucosidases are suitable. The cyanogenic compound, e.g. amygdalin or some other plant-derived saccharide, is administered after the conjugate. Intra-vesical (intra-bladder) administration is preferred (for bladder cancers) and forms a further aspect of the invention, whether the compound is cyanide-liberating (as above) or suitable for therapy or imaging in any other way.</p>		

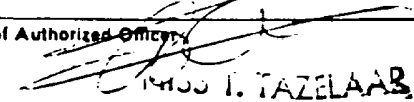
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INTERNATIONAL SEARCH REPORT

International Application No PCT/GB 91/00104

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 ⁵ : A 61 K 47/48		
II. FIELDS SEARCHED		
Minimum Documentation Searched ⁷		
Classification System	Classification Symbols	
IPC ⁵	A 61 K	
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 ¹⁰	Citation of Document, ¹¹ with Indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. ¹³
Y	WO, A, 87/03205 (CORAL SOCIEDADE BRASILEIRA) 4 June 1987 see page 2, line 29 - page 3, line 2; claims ---	1-10,17
P,Y	Plant Physiology, volume 94, 1990, J.E. Poulton: "Cyanogenesis in plants", pages 401-405 see page 401, column 1, paragraph 1; page 402, column 2, paragraphs 2,3; page 403, paragraph 3 ---	1-10,17
Y	STN File Server File Medline, AN 77040351 & Z Allg Mikrobiol, 1976, volume 16, no. 7, pages 507-519 see the whole abstract ---	1-10,17
A	EP, A, 0302473 (BRISTOL-MYERS CO.) 8 February 1989 see page 7, lines 25-32; claims 1-4,8 ---	1-10, 17
A	EP, A, 8807378 (CANCER RES.CAMP.TECH.) 6 October 1988 see page 8, lines 15-21, page 9, lines 1-8	1-10,17
<p>¹⁰ Special categories of cited documents:</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>"Δ" 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	
6th June 1991	29 JUL 1991	
International Searching Authority	Signature of Authorized Officer	
EUROPEAN PATENT OFFICE	 H. TAZELAAR	

FURTHER INFORMATION CONTINUED FROM THE SECOND SHEET

INCOMPLETELY

V. OBSERVATIONS WHERE CERTAIN CLAIMS WERE FOUND UNSEARCHABLE

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:

Claim numbers 11-16: Please see Rule 39.1(iv) of the PCT:-

methods for treatment of the human or animal body by surgery or therapy, as well as diagnostic methods

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

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

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:
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 9100104

SA 43827

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 16/07/91. 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
WO-A- 8703205	04-06-87	EP-A- 0250477	07-01-88
EP-A- 0302473	08-02-89	US-A- 4975278	04-12-90
		AU-A- 2020188	25-05-89
		JP-A- 2223532	05-09-90
EP-A- 8807378		None	