



European Patent  
Office

**SUPPLEMENTARY  
PARTIAL EUROPEAN SEARCH REPORT**

Application Number

which under Rule 45 of the European Patent Convention EP 02 72 5464  
shall be considered, for the purposes of subsequent  
proceedings, as the European search report

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	KARACAY H ET AL: "Pretargeting studies with a murine anti-colon-specific antigen-p (CSAp) X chimeric anti-(indium-DTPA) bispecific antibody and technetium-99m-labeled peptide" CANCER BIOTHERAPY AND RADIOPHARMACEUTICALS, vol. 15, no. 4, 2000, page 412, XP008065412 & EIGHTH CONFERENCE ON RADIOIMMUNODETECTION AND RADIOIMMUNOTHERAPY OF CANCER; PRINCETON, NEW JERSEY, USA; OCTOBER 12-14, 2000 ISSN: 1084-9785 * the whole document *	1,3,4, 13-83, 121, 144-150	INV. A61K39/395 C07K16/00 C07K16/30
X	WO 99/66951 A (IMMUNOMEDICS) 29 December 1999 (1999-12-29)  * the whole document * ----- -/--	1,3,4, 13-83, 121, 144-150	TECHNICAL FIELDS SEARCHED (IPC)  C07K A61K C12N G01N
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
<b>INCOMPLETE SEARCH</b>			
<p>The Search Division considers that the present application, or some or all of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for the following claims:</p> <p>Claims searched completely :</p> <p>Claims searched incompletely :</p> <p>Claims not searched :</p> <p>Reason for the limitation of the search: see sheet C</p>			
Place of search <b>The Hague</b>		Date of completion of the search <b>7 September 2006</b>	Examiner <b>Moreau, Jean</b>
<b>CATEGORY OF CITED DOCUMENTS</b>  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  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			

2  
EPO FORM 1503 03.02 (P04C20)





Although claims 42, 72, 113-120 and 144-150 are directed to a diagnostic method practised on the human/animal body (Article 52(4) EPC), the search has been carried out and based on the alleged effects of the compound/composition.

-----



### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☒ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:  
1-140, 141-143
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-120

Monoclonal antibodies binding to a colon-specific antigen-p  
mucin (CSAp) antigen, their use in diagnostics or  
therapeutics

---

2. claims: 121-140, 144-150

Bispecific antibody having at least one arm binding to a  
target tissue and an other arm binding to a targetable  
conjugate and its use in diagnostics or therapeutics

---

3. claims: 141-143

A targetable conjugate and method for screening a targetable  
conjugate

---

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

EP 02 72 5464

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

07-09-2006

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9966951 A	29-12-1999	AU 760854 B2	22-05-2003
		AU 4579299 A	10-01-2000
		CA 2335364 A1	29-12-1999
		EP 1089766 A2	11-04-2001
		JP 2002518460 T	25-06-2002
-----			
US 6096289 A	01-08-2000	NONE	
-----			
US 2002006379 A1	17-01-2002	US 7074405 B1	11-07-2006
-----			

专利名称(译)	生产和使用与双特异性抗体一起使用的新型肽基试剂		
公开(公告)号	<a href="#">EP1372718A4</a>	公开(公告)日	2006-10-18
申请号	EP2002725464	申请日	2002-04-03
[标]申请(专利权)人(译)	IMMUNOMEDICS , INC		
申请(专利权)人(译)	IMMUNOMEDICS INC.		
当前申请(专利权)人(译)	IMMUNOMEDICS INC.		
[标]发明人	HANSEN HANS J GRIFFITHS GARY L LEUNG SHUI ON MCBRIDE WILLIAM J QU ZHENGXING GOLDENBERG DAVID M		
发明人	HANSEN, HANS, J. GRIFFITHS, GARY, L. LEUNG, SHUI-ON MCBRIDE, WILLIAM, J. QU, ZHENGXING GOLDENBERG, DAVID, M.		
IPC分类号	C07K16/30 G01R33/28 A61B5/055 A61K39/395 A61K49/00 A61K51/00 A61K51/08 A61K51/10 C07K51/107 C07K5/11 C07K16/00 C07K16/18 C07K16/28 C07K16/44 C07K16/46 C07K19/00 C12N1/15 C12N1/19 C12N1/21 C12N5/10 C12N15/09 C12P21/08 C12Q1/68 G01N33/50 G01N33/574 G01N33/577		
CPC分类号	A61K47/6863 A61K47/6899 A61K51/1048 A61K51/1063 A61K2039/505 A61P31/04 A61P31/12 A61P33/00 A61P35/00 B82Y5/00 C07K16/18 C07K16/30 C07K16/3007 C07K16/3046 C07K16/44 C07K16/468 C07K2317/12 C07K2317/13 C07K2317/24 C07K2317/31 C07K2317/55 C07K2317/622 C07K2319/00		
优先权	09/823746 2001-04-03 US		
其他公开文献	EP1372718A2 EP1372718B1		
外部链接	<a href="#">Espacenet</a>		

#### 摘要(译)

本公开涉及双特异性抗体或抗体片段，其具有至少一个对靶组织具有反应性的臂和至少一个对接头部分具有反应性的臂。接头部分包括已制备抗体的半抗原。抗原接头与一种或多种治疗剂或诊断剂或酶缀合。本公开内容提供了用于产生双特异性抗体或抗体片段的构建体和方法，以及使用它们的方法。

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	KARACAY H ET AL: "Pretargeting studies with a murine anti-colon-specific antigen-p (CSAp) X chimeric anti-(indium-DTPA) bispecific antibody and technetium-99m-labeled peptide" CANCER BIOTHERAPY AND RADIOPHARMACEUTICALS, vol. 15, no. 4, 2000, page 412, XP08065412 & EIGHTH CONFERENCE ON RADIOIMMUNODETECTION AND RADIOIMMUNOTHERAPY OF CANCER, NEW JERSEY, USA, OCTOBER 12-14, 2000 ISSN: 1084-9785 * the whole document *	1.3.4. 13-83. 121. 144-150
X	WO 99/66951 A (IMMUNODETCS) 29 December 1999 (1999-12-29) * the whole document *	1.3.4. 13-83. 121. 144-150
		TECHNICAL FIELD SEARCHED
		C07K A61K C12N G01N
The supplementary search report has been based on the last set of claims valid on October 6, 2006 (the date of the search).		
INCOMPLETE SEARCH		
The Search Division considers that the present application, or some or all of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for the following reasons:		
Claims searched completely :		
Claims not searched :		
Reason for the invitation of the search: see sheet C		
Place of search		Examiner
The Hague		Moreau, Jean
Date of completion of the search		
7 September 2006		
CATEGORY OF CITED DOCUMENTS		
X particularly relevant if taken alone		
D particularly relevant if combined with another document		
A technological background		
D non-written document		
P intermediate document		
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		
A member of the same patent family, corresponding document		

DOCUMENT SEARCH PAGE 2