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Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 13 September 2007

For two-letter codes and other abbreviations, refer to the “Guidance Notes on Codes and Abbreviations” appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ETHANOL-PRECIPITATED PHASEOLUS VULGARIS EXTRACTS, THEIR USE AND FORMULATIONS

(57) Abstract: Extract obtainable by extraction from Phaseolus sp. with mixtures of ethanol and water, characterised by an α-amylase inhibitor content in between 1,000 and 1,600 USP/mg (HPLC titre between 6 and 14% w/w) and a phytohaemagglutinin content in between 8,000 and 30,000 HAU/g, and a process for its preparation.
INTERNATIONAL SEARCH REPORT

A CLASSIFICATION OF SUBJECT MATTER

INV. A61K36/48 A23L1/305 A23L1/30

According to International Patent Classification (IPC) and both national classification on and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A61K A23L A23J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database consulted during the international search (name of database and, where practical, search terms used)
EPO-Internal, BIOSIS, EMBASE, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<th>Category</th>
<th>Citation of document with indication, where appropriate of the relevant passages</th>
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Further documents are listed in the continuation of Box C

See patent family annex

* 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 patentability (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 underlying the invention
"X" document of particular relevance the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"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

Date of the actual completion of the international search
20 June 2007

Date of mailing of the international search report
09/07/2007

Name and mailing address of the ISA
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Authorized officer
Hars, Jesko
## INTERNATIONAL SEARCH REPORT

**International application No**

PCT/EP2006/012012

**DOCUMENTS CONSIDERED TO BE RELEVANT**

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<td>A</td>
<td>DE 26 28 757 A1 (WOEBER GUENTER DR) 29 December 1977 (1977-12-29) the whole document</td>
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<td>A</td>
<td>EP 1 295 535 A2 (PHARMACHEM LAB INC [US]) 26 March 2003 (2003-03-26) example 2</td>
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*Category*: Indicates the type of document considered relevant.

*Citation*: Details the reference to the document.

*Relevant to claim No.*: Indicates the claim numbers to which the document is relevant.
### INTERNATIONAL SEARCH REPORT

**International application No**

PCT/EP2006/012012

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<td>A</td>
<td>WO 2005/094602 A (CONSIGLIO NAZIONALE RICERCHE [IT]; BOLLINI ROBERTO [IT]; SPARVOLI FRAN) 13 October 2005 (2005-10-13) page 7, paragraph 1 page 9, paragraph 1</td>
<td>1-5</td>
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</table>
Continuation of Box II.2

Claims Nos.: 1-5 (partially)

According to PREV199293056242 - Iguti et al., 1992, alpha-amylase inhibitor (aAI) has been found in 150 different Phaseolous vulgaris varieties, but not eg in P. lunatus or P. mungo. aAI thus seems to be restricted to P. vulgaris. The claims relate to Phaseolus sp., ie the cover Phaseolus species which are void of aAI. Since according to claim 1 aAI has to be present in the extracts of the invention, the claims 1-5 effectively attempt to protect subject-matter which is impossible to realise, ie the skilled person is not in a position to obtain extracts with the desired aAI concentration from species which are not P. vulgaris. Further, the description does not indicate any extract other than those obtained from P. vulgaris which would have aAI. The claims 1-5 apparently violate Art. 5, 6 PCT. The search has been restricted to extracts from Phaseolus vulgaris.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.
Box II  Observations where certain claims were found unsearchable (Continuation of item 2 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.: 1-5 (partially) 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. see FURTHER INFORMATION sheet PCT/ISA/210

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 III  Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

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.

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.
**INTERNATIONAL SEARCH REPORT**

**information on patent family members**

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Form PCT/ISA/210 (patent family annex) (April 2006)