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— *of inventorship (Rule 4.17(iv)) for US only*

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(54) Title: DERMATOLOGICAL AGENT FOR THE TREATMENT OF SKIN TRAUMA, ESPECIALLY IN BURN CONDITIONS

(57) Abstract: Dermatological agent for the treatment of skin trauma, especially in burn conditions, containing known natural active ingredients forming a mixture with the inert base medium, in particular containing the standardized extract of propolis in 0.1-20.0 parts by weight, with flavonoid content, recalculated to quercetin, not less than 1%, a standardized extract of vegetable raw material in 1,0-20.0 parts by weight, with flavonoid content, recalculated to quercetin, not less than 1% and at least one of the known dermatological antibiotics in quantity of 0.1-5.0 parts by weight, uniformly dispersed in the inert base of vehicular type in total quantity complementing to 100 parts by weight.

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K35/78 A61K7/26 A61P17/02 A61K9/06 A61K47/00

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K A61P

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

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
WPI Data, EPO-Internal, PAJ, BIOSIS, MEDLINE, PASCAL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NISTOR CONSTANTIN ET AL: "Sunscreen cream" CHEMABS, XP002179926 & RO 109 503 A (NISTOR CONSTANTIN ET AL.) 30 March 1995 (1995-03-30) ---	1,6,32, 35
Y	MANZATU OAN ET AL: "Therapeutic ointment for treatment of wounds and burns" CHEMABS, XP002179925 & RO 107 087 A (MANZATU OAN ET AL.) 30 April 1997 (1997-04-30) --- -/--	1-35

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in 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 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 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.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
7 November 2002	20/11/2002

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Thalmair, M

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 014, no. 386 (C-0750), 21 August 1990 (1990-08-21) & JP 02 142734 A (MASAYUKI AOKI;OTHERS: 01), 31 May 1990 (1990-05-31) abstract	1-35
Y	DE 196 15 293 A (DIBART JOHANN ;DIBART SIEGLINDE (DE)) 23 October 1997 (1997-10-23) the whole document	1-35
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Y	DATABASE WPI Section Ch, Week 199612 Derwent Publications Ltd., London, GB; Class B04, AN 1996-107601 XP002208881 & ES 2 080 697 A (SORIA NATURAL SA), 1 February 1996 (1996-02-01) abstract	1-35
Y	EP 0 510 318 A (NUCERA ANTONIO CARMELO) 28 October 1992 (1992-10-28) claims 1,2	1-35
Y	US 4 748 022 A (BUSCIGLIO JOHN A) 31 May 1988 (1988-05-31) claims 1,6	1-35
Y	EP 0 870 507 A (FARMO NAT LTD) 14 October 1998 (1998-10-14) claim 11; example 5	1-35

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
Y	DATABASE WPI Section Ch, Week 199506 Derwent Publications Ltd., London, GB; Class B04, AN 1995-042015 XP002219755 & RU 2 013 087 C (TSVETEN RES PRODN ASSOC) , 30 May 1994 (1994-05-30) abstract ---	1-35
Y	DATABASE WPI Section Ch, Week 200012 Derwent Publications Ltd., London, GB; Class A25, AN 2000-135445 XP002219756 & RU 2 120 272 C (BIOCOSMETIC WKS STOCK CO), 20 October 1998 (1998-10-20) abstract -----	1-35

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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:
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 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. ☐ 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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

The initial phase of the search revealed a very large number of documents relevant to the issue of novelty of claim 1, since dermatological agents containing known natural active ingredients forming a mixture with an inert base medium are well-known in the prior art.
So many documents were retrieved that it is impossible to determine which parts of the claim may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT). For these reasons, a meaningful search over the whole breadth of the claim is impossible. Consequently, the search has been restricted to the part of claim 1 starting with "in particular", i.e containing
1) the standardized extract of propolis in 0.1-20.0 parts by weight, with flavonoid content recalculated to quercetin, not less than 1%,
2) a standardized extract of vegetable raw material in 1,0-20.0 parts by weight, with flavonoid content recalculated to quercetin, not less than 0.1%, and
3) at least one of the known dermatological antibiotics in quantity of 0.1-5.0 parts by weight, uniformyl dispersed in the inert base of vehicular type in total quantity complementing to 100 parts by weight.

With respect to this particular combination, it is noted, that present claims 1 and 35 relate to an agent containing any standardized extract of vegetable raw material and at least one of the known dermatological antibiotics, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such standardized extracts and antibiotics. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the vegetable extracts and antibiotics as specified in the dependent claims 10-19 and 20-30, respectively, as well as in the Examples 1-17.
In this context, the search regarding the inert base medium has also been restricted to the specific bases mentioned in claims 2-19, which have support in the description.

Furthermore, claims 3-9, which are dependent upon claim 1 or 2 (claims 3-7) or upon claim 1 only (claims 8-9), relate to "said" vegetable oil or "said" animal/organic fat, however, in claim 1 none of these expressions is mentioned.

The applicant's attention is drawn to the fact that claims, or parts of 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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

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