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(71) Applicant (for all designated States except US): **ESSENTIAL HEALTH, LLC** [US/US]; 4000 Skyline Blvd., Reno, NV 89509 (US).

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(71) Applicants and
(72) Inventors: **ROLLING, Lane** [US/US]; 8256 Garnet Canyon Lane, Las Vegas, NV 89129 (US). **OBERG, Craig** [US/US]; 5931 N. North Fork Road, Eden, UT 84310 (US). **CALL, Evan** [US/US]; 1851 Oakmont Drive, Bountiful, UT 84010 (US).

(74) Agent: **TINGEY, David, B.**; 1800 Eagle Gate Tower, 60 East South Temple, Salt Lake City, UT 84111 (US).

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(54) Title: PENETRATING CARRIER, ANTIFUNGAL COMPOSITION USING THE SAME AND METHOD FOR TREATMENT OF DERMATOPHYTE INFECTIONS

(57) Abstract: An antifungal composition and penetrating carrier system for topical treatment of dermatophytic infection and secondary bacterial infections. The antifungal composition includes various fungistatic and fungicidal essential oil components, or combinations thereof. The penetrating carrier system may include various ingredients, including a penetration enhancer, such as isopropyl myristate.

A. CLASSIFICATION OF SUBJECT MATTER

A61K 9/06(2006.01)i, A61K 31/11(2006.01)i, A61P 31/10(2006.01)i, A61P 17/00(2006.01)i, A61K 31/045(2006.01)i, A61K 47/10(2006.01)i, A61K 47/14(2006.01)i

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 8 as above

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 practicable, search terms used)

eKOMPASS(KIPO internal), PubMed, NCBI, Esp@snet, PAJ, USPTO, Google

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2007-0292355 A1 (DOV TAMARKIN, et al.) 20 December 2007 See the abstract, paragraph [0016]~[0037], [0109]~[0130], [0190]~[0204], [0266], [0270], claims 1~9, 16~17	1-11, 18-19
Y	C. CA VALEIRO, et al., Antifungal activity of Juniperus essential oils against dermatophyte, Aspergillus and Candida strains. Journal of Applied Microbiology. June 2006, 100(6), pp.1333-1338 See the abstract, page 1337~1338(Results, Discussion)	1-11, 18-19
Y	JANINE DE AQUINO LEMOS, et al., Antifungal activity from Ocimum gratissimum L. towards Cryptococcus neoformans. Memorias do Instituto Oswaldo Cruz. February 2005, 100(1), pp.55-58 See the abstract, page 56~57(Results, Discussion)	1-11, 18-19
A	US 2007-0160551 A1 (MARC SELNER) 12 July 2007 See the whole documents.	1-11, 18-19
A	US 2007-0071705 A1 (MONICA ALVES MARIANI DE OLIVEIRA, et al.) 29 March 2007 See the whole documents.	1-11, 18-19
A	US 2004-0258740 A1 (WILLIAM ALEJANDRO THOMPSON) 23 December 2004 See the whole documents.	1-11, 18-19

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 application or patent 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 citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

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"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

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Box No. 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.: 12-17
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 12~17 pertain to methods for treatment of the human body by therapy, as well as diagnostic methods, and thus relate to a subject matter which this International Searching Authority is not required, under Article 17(2)(a)(i) of PCT and Rule 39.1(iv) of the Regulations under the PCT, to search.
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 No. 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 and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

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