

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property

Organization

International Bureau



WIPO | PCT



(10) International Publication Number

WO 2012/013967 A3

(43) International Publication Date
2 February 2012 (02.02.2012)

(51) International Patent Classification:

A61Q 19/00 (2006.01) *A61P 17/10* (2006.01)
A61Q 15/00 (2006.01) *A61K 31/122* (2006.01)
A61K 8/19 (2006.01) *A61K 9/00* (2006.01)
A61K 8/35 (2006.01) *A61P 31/04* (2006.01)

(21) International Application Number:

PCT/GB2011/051414

(22) International Filing Date:

25 July 2011 (25.07.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1012589.6 28 July 2010 (28.07.2010) GB
1109229.3 2 June 2011 (02.06.2011) GB

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

10 October 2013

(54) Title: NEW USES

(57) Abstract: An antibacterial or anti-acne formulation containing (a) tropone or a substituted tropone and (b) a metal or metal salt selected from copper, copper salts, bismuth, bismuth salts, silver, silver salts, and mixtures thereof, for use in the treatment of either acne or body odour. The substituted tropone may be for example tropolone or hinokitiol.



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A. CLASSIFICATION OF SUBJECT MATTER INV. A61Q19/00 A61Q15/00 A61K8/19 A61K8/35 A61P17/10 A61K31/122 A61K9/00 A61P31/04 ADD. 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) A61K A61Q 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) EPO-Internal, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 728 478 A1 (OTSUKA PHARMA CO LTD [JP]) 28 August 1996 (1996-08-28) page 2, line 15 - line 20 page 3, line 17 - line 18 page 4, line 45 - page 5, line 15 page 5, line 52 - line 55; tables 3-14 -----	1,3,4, 7-15
X	DATABASE WPI Week 199642 Thomson Scientific, London, GB; AN 1996-421889 XP002688963, -& JP 8 208460 A (OTSUKA PHARM CO LTD) 13 August 1996 (1996-08-13) abstract examples 9-13,15,16,18-24 ----- <div style="text-align: right;">-/-</div>	1,3,4, 7-12
<div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex. </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>* 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 application or patent 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> </div> <div style="width: 45%;"> <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 when the document is taken alone</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>"&" document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search <div style="text-align: center; font-size: 1.2em;">10 December 2012</div>		Date of mailing of the international search report <div style="text-align: center; font-size: 1.2em;">08/08/2013</div>
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer <div style="text-align: center; font-size: 1.2em;">Sala-Jung, Nathalie</div>

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PCT/GB2011/051414

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE WPI Week 200352 Thomson Scientific, London, GB; AN 2003-546330 XP002688964, -& JP 2003 089606 A (KANAE TORYO KK) 28 March 2003 (2003-03-28) abstract paragraph [0015]</p> <p>-----</p>	1,3,4,8, 9,13
X	<p>DATABASE WPI Week 200949 Thomson Scientific, London, GB; AN 2009-L60705 XP002688965, -& WO 2009/088042 A1 (KORITSU DAIGAKU HOJIN OOSAKA FURITSU DAIGAKU) 16 July 2009 (2009-07-16) abstract example 3</p> <p>-----</p>	1,3,4,8, 10
X	<p>DATABASE WPI Week 200351 Thomson Scientific, London, GB; AN 2003-536260 XP002688966, & JP 2003 073250 A (ASAHI KASEI KOGYO KK) 12 March 2003 (2003-03-12) abstract</p> <p>-----</p>	1,3,4, 8-10,12
X	<p>DATABASE WPI Week 200157 Thomson Scientific, London, GB; AN 2001-516996 XP002688967, -& JP 2001 115095 A (ASAHI KASEI KOGYO KK) 24 April 2001 (2001-04-24) abstract; example 2</p> <p>-----</p>	13
X	<p>NOMIYA K ET AL: "Syntheses, structures and antimicrobial activities of various metal complexes of hinokitiol", INORGANICA CHIMICA ACTA, ELSEVIER BV, NL, vol. 362, no. 1, 1 January 2009 (2009-01-01), pages 43-55, XP025713994, ISSN: 0020-1693, DOI: 10.1016/J.ICA.2008.02.061 [retrieved on 2008-03-04] right column; page 44 item 2.4; page 46 table 4</p> <p>-----</p>	1,3,4, 8-10,15

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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.:
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:
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:

see additional sheet

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 fees, this Authority did not invite payment of additional fees.
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.:

4(completely); 1-3, 7-15(partially)

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 4(completely); 1-3, 7-15(partially)

Formulation, uses and methods according to the claims
wherein (b) is selected from copper and copper salts

2. claims: 5(completely); 1-3, 7-15(partially)

Formulation, uses and methods according to the claims
wherein (b) is selected from bismuth and bismuth salts

3. claims: 6(completely); 1-3, 7-15(partially)

Formulation, uses and methods according to the claims
wherein (b) is selected from silver and silver salts

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0728478	A1	28-08-1996	AU 8116294 A 29-05-1995
			CN 1139879 A 08-01-1997
			EP 0728478 A1 28-08-1996
			WO 9513057 A1 18-05-1995

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