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(57) Abstract: The present invention relates to a composition for topical application for the treatment of lice and nits. The composition is preferably formulated as a biphasic water/oil lotion for spray application on the scalp where it mainly exerts a suffocating action on infesting lice.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,Y	WO 2005/027636 A (ENTOMOS RES LTD; WHELAN IAN PETER [GB]) 31 March 2005 (2005-03-31) page 1, paragraphs 1,5 - page 2, paragraph 2 page 3, line 2 claims 1,2,5,7,10,11,14	1-19
Y	"MIGLYOL 8810" 5 January 2002 (2002-01-05), SASOL NORTH AMERICA, XP002514459	1-19
X	the whole document	13-16
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Further documents are listed in the continuation of Box C.

See patent family annex.

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PCT/IB2007/002802

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00/72814 A (ZANCANER EDUARDO [BR]; SCHUMANSKY FELIPE [BR]) 7 December 2000 (2000-12-07) page 1, lines 3-9 page 3, lines 8-12 page 4, lines 2-6 page 6, lines 4-9	1-19
Y	EP 1 308 153 A (BEIERSDORF AG [DE]) 7 May 2003 (2003-05-07) paragraphs [0051], [0060]	1-19
X	paragraphs [0001], [0007], [0013], [0105]	1-4, 7-11,13, 14,16,18
Y	EP 1 310 239 A (BEIERSDORF AG [DE]) 14 May 2003 (2003-05-14) paragraph [0058]	1-19
X	paragraph [0095]	1,13,14, 16,18
Y	US 2004/161441 A1 (SIRINYAN KIRKOR [DE] ET AL) 19 August 2004 (2004-08-19) paragraphs [0001], [0088], [0089]	1-19
Y	US 2002/143203 A1 (KOCH OSKAR [DE] ET AL) 3 October 2002 (2002-10-03)	1-19
X	tables 8,10	1,13,14, 16,18
Y	WO 01/60163 A (ECOSMART TECHNOLOGIES INC [US]; BESSETTE STEVEN M [US]) 23 August 2001 (2001-08-23) page 4	12,17,19
Y	DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; December 2000 (2000-12), MORSY TOSSON A ET AL: "Evaluation of the in-vitro pediculicidal action of four known insecticides and three medicinal plant extracts" XP002514460 Database accession no. PREV200100024598 abstract & JOURNAL OF THE EGYPTIAN SOCIETY OF PARASITOLOGY, vol. 30, no. 3, December 2000 (2000-12), pages 699-708, ISSN: 1110-0583	12,17,19
	----- -/--	

INTERNATIONAL SEARCH REPORT

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PCT/IB2007/002802

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>DATABASE MEDLINE [Online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; December 2005 (2005-12), YANG YOUNG-CHEOL ET AL: "Ovicidal and adulticidal activities of Cinnamomum zeylanicum bark essential oil compounds and related compounds against Pediculus humanus capitis (Anoplura: Pediculicidae)." XP002514461 Database accession no. NLM16188263 abstract & INTERNATIONAL JOURNAL FOR PARASITOLOGY DEC 2005, vol. 35, no. 14, December 2005 (2005-12), pages 1595-1600, ISSN: 0020-7519</p>	12, 17, 19
Y	<p>----- DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; December 2005 (2005-12), YANG YOUNG-CHEOL ET AL: "Ovicidal and adulticidal activities of Cinnamomum zeylanicum bark essential oil compounds and related compounds against Pediculus humanus capitis (Anoplura : Pediculicidae)" XP002514462 Database accession no. PREV200600166601 abstract & INTERNATIONAL JOURNAL FOR PARASITOLOGY, vol. 35, no. 14, December 2005 (2005-12), pages 1595-1600, ISSN: 0020-7519</p>	12, 17, 19
Y	<p>----- DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; March 2004 (2004-03), MILLS CLIVE ET AL: "Inhibition of acetylcholinesterase by Tea Tree oil" XP002514463 Database accession no. PREV200400311022 abstract & JOURNAL OF PHARMACY AND PHARMACOLOGY, vol. 56, no. 3, March 2004 (2004-03), pages 375-379, ISSN: 0022-3573</p>	12, 17, 19
Y	<p>----- EP 1 609 362 A (BAYER HEALTHCARE AG [DE]) 28 December 2005 (2005-12-28) example 1 ----- -/--</p>	12, 17, 19

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2007/002802

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2006/000335 A (BAYER HEALTHCARE AG [DE]; SIRINYAN KIRKOR [DE]; LOEHR REINHOLD [DE]) 5 January 2006 (2006-01-05) page 1, lines 2,3,16-23 page 2, lines 4-25 -----	1-19

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2007/002802

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2005027636	A	31-03-2005	NONE
WO 0072814	A	07-12-2000	AU 4593799 A 18-12-2000
EP 1308153	A	07-05-2003	DE 10154111 A1 22-05-2003
EP 1310239	A	14-05-2003	DE 10155957 A1 22-05-2003
US 2004161441	A1	19-08-2004	AT 309702 T 15-12-2005 BR 0208733 A 20-07-2004 CA 2443159 A1 07-11-2002 CN 1501773 A 02-06-2004 CN 101036648 A 19-09-2007 CZ 20032724 A3 14-01-2004 DE 10117676 A1 10-10-2002 DE 50204946 D1 22-12-2005 DK 1379138 T3 03-04-2006 EE 200300490 A 15-12-2003 WO 02087338 A1 07-11-2002 EP 1379138 A1 14-01-2004 ES 2250701 T3 16-04-2006 HK 1066449 A1 02-05-2008 HR 20030904 A2 31-08-2005 HU 0303840 A2 29-03-2004 JP 2004525188 T 19-08-2004 MX PA03009134 A 17-02-2004 NO 20034512 A 01-12-2003 NZ 528664 A 24-06-2005 PL 367026 A1 07-02-2005 RU 2296466 C2 10-04-2007 SK 12352003 A3 03-02-2004 UA 77411 C2 15-12-2003 ZA 200307816 A 07-10-2004
US 2002143203	A1	03-10-2002	AT 272614 T 15-08-2004 AU 1826602 A 21-05-2002 AU 2002218266 B2 27-07-2006 BR 0115282 A 29-07-2003 CA 2428322 A1 16-05-2002 CN 1473146 A 04-02-2004 DE 10055940 A1 29-05-2002 WO 0238537 A1 16-05-2002 EP 1341752 A1 10-09-2003 ES 2223955 T3 01-03-2005 HK 1062432 A1 27-10-2006 JP 4054677 B2 27-02-2008 JP 2004513162 T 30-04-2004 MX PA03004028 A 19-08-2003 NZ 526324 A 24-03-2005 PL 362929 A1 02-11-2004 RU 2290397 C2 27-12-2006 US 2007185057 A1 09-08-2007 ZA 200304133 A 11-02-2004
WO 0160163	A	23-08-2001	AR 027527 A1 02-04-2003 AU 3836401 A 27-08-2001 EP 1408762 A2 21-04-2004 US 2003039674 A1 27-02-2003

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2007/002802

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0160163	A	US 2003036530 A1	20-02-2003
EP 1609362	A	28-12-2005 NONE	
WO 2006000335	A	05-01-2006	
		AR 049836 A1	06-09-2006
		AU 2005256406 A1	05-01-2006
		BR PI0512649 A	25-03-2008
		CA 2572134 A1	05-01-2006
		CN 1976582 A	06-06-2007
		DE 102004031325 A1	19-01-2006
		EP 1763301 A1	21-03-2007
		JP 2008504318 T	14-02-2008
		SV 2006002155 A	15-02-2006
		US 2008292672 A1	27-11-2008
		UY 28987 A1	31-01-2006