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(54) Title: METHOD AND COMPOSITION FOR PREVENTING OR REDUCING THE SYMPTOMS OF MENOPAUSE

(57) Abstract: A method for preventing and or reducing the symptoms of menopause in women comprises identifying women having or at risk for having such symptoms, and administering to them an effective amount of a composition comprising *trans*-resveratrol and other compounds that prevent or reduce the symptoms.

INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 A61K31/05 A61P15/12

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

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, CHEM ABS Data, BIOSIS, MEDLINE, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DEBASIS BAGCHI ET AL.: "Phytoestrogen, Resveratrol and Women's Health" RESEARCH COMMUNICATIONS IN PHARMACOLOGY AND TOXICOLOGY, vol. 5, no. 1-2, 2000, pages 107-121, XP001018765 USA abstract figure 3 page 114, paragraph 2 -page 118, line 3 --- -/--	1-8

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search  17 October 2001	Date of mailing of the international search report  25/10/2001
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Name and mailing address of the ISA 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	Authorized officer  Economou, D
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International Application No

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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.
X	CALABRESE G.: "Nonalcoholic Compounds of Wine: The Phytoestrogen Resveratrol and moderate Red Wine Consumption during Menopause" DRUGS UNDER EXPERIMENTAL AND CLINICAL RESEARCH, vol. 25, no. 2-3, 1999, pages 111-114, XP001021116 the whole document ---	1-8
X	WO 96 21403 A (WAKE FOREST UNIVERSITY) 18 July 1996 (1996-07-18) the whole document ---	1-8
X	WO 99 65337 A (BETH ISRAEL DEACONESS MEDICAL CENTER) 23 December 1999 (1999-12-23) the whole document claims 1-24 ---	1-8
P,X	WO 01 30314 A (UNILEVER PLC.) 3 May 2001 (2001-05-03) examples 4-9 claims 1-5 ---	4
X	WO 99 66913 A (SIGMA-TAU HEALTHSCIENCE S.P.A.) 29 December 1999 (1999-12-29) page 1, line 1 -page 6, line 19 page 14; example 10 claims 1-16 ---	1-8
A	US 5 707 630 A (SABINA INTERNATIONAL) 13 January 1998 (1998-01-13) column 1, line 5 - line 10 column 4, line 17 - line 23 ---	3
P,X	EP 1 072 265 A (MEDIS S.R.L. MEDICAL INFUSION SYSTEMS) 31 January 2001 (2001-01-31) claim 10 -----	4-6

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/09489

Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
WO 9621403	A	18-07-1996	US 5516528 A AU 4697696 A CA 2210811 A1 EP 0902665 A1 WO 9621403 A1	14-05-1996 31-07-1996 18-07-1996 24-03-1999 18-07-1996
WO 9965337	A	23-12-1999	AU 4573899 A WO 9965337 A1	05-01-2000 23-12-1999
WO 0130314	A	03-05-2001	AU 7784800 A WO 0130314 A1	08-05-2001 03-05-2001
WO 9966913	A	29-12-1999	IT RM980417 A1 AU 4390999 A BR 9911440 A CN 1306434 T EP 1089742 A2 WO 9966913 A2 NO 20006431 A	23-12-1999 10-01-2000 20-03-2001 01-08-2001 11-04-2001 29-12-1999 22-02-2001
US 5707630	A	13-01-1998	NONE	
EP 1072265	A	31-01-2001	EP 1072265 A1 EP 1074254 A2	31-01-2001 07-02-2001