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- (71) Applicant (for all designated States except US): THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SWANSON, Cheri, Lynn [US/US]; 7913 Chantilly Drive, West Chester, OH 45069 (US). LAUGHLIN, Leo, Timothy, II [US/US]; 5796 Running Fox Lane, Mason, OH 45040 (US). FIN-LAY, Deborah, Ruth [US/US]; 6301 Cary Avenue, Cincinnati, OH 45224 (US).
- (74) Common Representative: THE PROCTER & GAMBLE COMPANY; c/o Hughett, Eileen, L., Global Patent Services, 299 East Sixth Street, Sycamore Building, 4th Floor, Cincinnati, OH 45202 (US).

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(54) Title: METHODS FOR IMPROVING THE APPEARANCE OF HYPERPIGMENTED SKIN USING A SYNERGISTIC COMPOSITION COMPRISING BANYAN TREE, LOTUS, AND CLOVER SERUM FRACTIONS

(57) Abstract: A composition and method for improving the appearance of a hyperpigmented skin comprises the step of applying a composition comprising an effective amount of banyan tree (Ficus benghalen-sis) serum fraction, lotus (Nelumbo Nucifera) serum fraction, and clover (Trifolium Pratense) serum fraction to a hyperpigmented spot on a skin surface. The composition is applied for a period of time sufficient to improve the appearance of the hyperpigmented spot. Other methods include improving the appearance of post-inflammatory hyperpigmentation.

## INTERNATIONAL SEARCH REPORT

International application No PCT/US2012/026092

A. CLASSIFICATION OF SUBJECT MATTER INV. A61K8/97 A61Q

A61Q17/00

A61Q19/00

A61Q19/08

A61Q19/02

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, MEDLINE, PAJ, WPI Data

C. DOCUMENTS CONSIDERED	TO BE RELEVANT
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2008/206373 A1 (PROCTER & GAMBLE) 28 August 2008 (2008-08-28) paragraph [0001] - paragraph [0006] paragraph [0037] - paragraph [0042] claims	1-7
Y	WO 2005/041996 A1 (GREEN MEADOWS RESEARCH) 12 May 2005 (2005-05-12) page 1, paragraph 1 page 3, line 1 page 6 - page 8 page 9, paragraph 2 page 11, paragraph 4 - page 12, paragraph 2 page 19, paragraph 2 claims	1-7
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ı	Χ	Further documents are listed in the	continuation of Box C.
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See patent family annex.

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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, Fax: (+31-70) 340-3016

Irwin, Lucy

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		PC1/032012/020092
C(Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 02/087533 A1 (BEIERSDORF) 7 November 2002 (2002-11-07) page 1, line 12 - page 2, line 28 page 7, line 29 - page 8, line 29 examples claims	1-7
Υ	US 6 468 564 B1 (CLIENTELE BEAUTY) 22 October 2002 (2002-10-22) column 1, line 13 - line 15 column 2, line 31 - column 3, line 18 column 4, line 47 - column 5, line 8 examples claims	1-7
Y	EP 1 344 516 A1 (COGNIS IBERIA) 17 September 2003 (2003-09-17) paragraph [0001] paragraph [0004] - paragraph [0005] paragraph [0009] pages -	1-7
Y	DE 103 29 004 A1 (KAANYA COSMETICS) 13 January 2005 (2005-01-13) paragraph [0001] - paragraph [0002] paragraph [0007] - paragraph [0013] claims	1-7

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2012/026092

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2008206373 A.	28-08-2008	CN 101621987 A EP 2124877 A2 US 2008206373 A1 WO 2008104941 A2	06-01-2010 02-12-2009 28-08-2008 04-09-2008
WO 2005041996 A	12-05-2005	AT 477789 T AU 2003275419 A1 EP 1667699 A1 US 2007116696 A1 WO 2005041996 A1	15-09-2010 19-05-2005 14-06-2006 24-05-2007 12-05-2005
WO 02087533 A	07-11-2002	DE 10120315 A1 WO 02087533 A1	31-10-2002 07-11-2002
US 6468564 B3	22-10-2002	NONE	
EP 1344516 A:	17-09-2003	EP 1344516 A1 JP 2005535566 A US 2005158396 A1 WO 03075861 A1	17-09-2003 24-11-2005 21-07-2005 18-09-2003
DE 10329004 A	13-01-2005	NONE	