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(54) Title: CARE AND/OR MAKE-UP COSMETIC COMPOSITION STRUCTURED WITH SILICONE POLYMERS AND ORGANOGELLING AGENTS, IN RIGID FORM

(57) Abstract: The invention relates to a care and/or makeup cosmetic composition comprising a liquid fatty phase comprising at least one silicone oil, structured with a gelling system comprising 1) at least one polymer having a weight-average molecular mass ranging from 500 to 500 000, containing at least one moiety comprising: - at least one polyorganosiloxane group consisting of 1 to 1 000 organosiloxane units in the chain of the moiety or in the form of a graft, and - at least two groups capable of establishing hydrogen interactions, the polymer being solid at room temperature and soluble in the liquid fatty phase at a temperature of 25 to 250°C, and 2) at least one non-polymeric organogelling agent.



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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/06463

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K7/02 A61K7/48

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 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 practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DATABASE WPI Derwent Publications Ltd., London, GB; AN 1992-060684 XP002243441 & JP 04 005224 A (KAO CO.) abstract	1-74
A	US 2002/048557 A1 (CAI HENG ET AL) 25 April 2002 (2002-04-25) paragraph '0086!; claims 1,6,30; examples 1-14	1-74
A	US 2002/051758 A1 (URRUTIA-GUTIERREZ ADRIANA ET AL) 2 May 2002 (2002-05-02) paragraphs '0102!, '0134!, '0135!; claims 1,30; example 5 ----- -/--	1-74

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in 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 document 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 another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *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

1 September 2003

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INTERNATIONAL SEARCH REPORT

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.
A	US 6 051 216 A (MOGHE BHALCHANDRA ET AL) 18 April 2000 (2000-04-18) cited in the application column 11, lines 53-67 column 18, lines 33-35,65-67; claims 5,18; examples B-G -----	1-74

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 03/06463

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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 II Observations where unity of invention is lacking (Continuation of item 2 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 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.:

1-74

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ 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: 1-74

Cosmetic care and/or make-up composition comprising a liquid fatty phase comprising a silicone oil, structured with a gelling system comprising:

1) at least one polymer as defined in Claim 1, comprising one moiety comprising a organosiloxane and two groups chosen within ester, amide, sulphonamide, carbamate, thiocarbamate, urea, thiourea, oxamido, guanidino and biguanidino, and combinations thereof

2) at least one non-polymeric organogelling agent as defined in Claim 1, characterized in that at least one of the two groups is an ester, with the proviso that at least one of the groups is different from an ester.

2. claims: 1-74

Cosmetic care and/or make-up composition comprising a liquid fatty phase comprising a silicone oil, structured with a gelling system comprising:

1) at least one polymer as defined in Claim 1, comprising one moiety comprising a organosiloxane and two groups chosen within ester, amide, sulphonamide, carbamate, thiocarbamate, urea, thiourea, oxamido, guanidino and biguanidino, and combinations thereof

2) at least one non-polymeric organogelling agent as defined in Claim 1,

characterized in that at least one of the two groups is an amide.

3. claims: 1-74

Cosmetic care and/or make-up composition comprising a liquid fatty phase comprising a silicone oil, structured with a gelling system comprising:

1) at least one polymer as defined in Claim 1, comprising one moiety comprising a organosiloxane and two groups chosen within ester, amide, sulphonamide, carbamate, thiocarbamate, urea, thiourea, oxamido, guanidino and biguanidino, and combinations thereof

2) at least one non-polymeric organogelling agent as defined in Claim 1,

characterized in that at least one of the two groups is a carbamate.

4. claims: 1-74

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Cosmetic care and/or make-up composition comprising a liquid fatty phase comprising a silicone oil, structured with a gelling system comprising:

1) at least one polymer as defined in Claim 1, comprising one moiety comprising a organosiloxane and two groups chosen within ester, amide, sulphonamide, carbamate, thiocarbamate, urea, thiourea, oxamido, guanidino and biguanidino, and combinations thereof

2) at least one non-polymeric organogelling agent as defined in Claim 1,

characterized in that at least one of the two groups is a urea.

5. claims: 1-74

Cosmetic care and/or make-up composition comprising a liquid fatty phase comprising a silicone oil, structured with a gelling system comprising:

1) at least one polymer as defined in Claim 1, comprising one moiety comprising a organosiloxane and two groups chosen within ester, amide, sulphonamide, carbamate, thiocarbamate, urea, thiourea, oxamido, guanidino and biguanidino, and combinations thereof

2) at least one non-polymeric organogelling agent as defined in Claim 1,

characterized in that at least one of the two groups is an oxamido.

6. claims: 1-74

Cosmetic care and/or make-up composition comprising a liquid fatty phase comprising a silicone oil, structured with a gelling system comprising:

1) at least one polymer as defined in Claim 1, comprising one moiety comprising a organosiloxane and two groups chosen within ester, amide, sulphonamide, carbamate, thiocarbamate, urea, thiourea, oxamido, guanidino and biguanidino, and combinations thereof

2) at least one non-polymeric organogelling agent as defined in Claim 1,

characterized in that at least one of the two groups is a sulfonamide, a thiocarbamate or a thiourea (sulfur groups).

7. claims: 1-74

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Cosmetic care and/or make-up composition comprising a liquid fatty phase comprising a silicone oil, structured with a gelling system comprising:

1) at least one polymer as defined in Claim 1, comprising one moiety comprising a organosiloxane and two groups chosen within ester, amide, sulphonamide, carbamate, thiocarbamate, urea, thiourea, oxamido, guanidino and biguanidino, and combinations thereof

2) at least one non-polymeric organogelling agent as defined in Claim 1, characterized in that at least one of the two groups is a guanidino or biguanidino.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/06463

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 04005224	A	09-01-1992	NONE	
US 2002048557	A1	25-04-2002	AU 8858701 A BR 0113524 A CA 2418648 A1 EP 1313441 A2 WO 0217871 A2	13-03-2002 08-07-2003 07-03-2002 28-05-2003 07-03-2002
US 2002051758	A1	02-05-2002	AU 8853001 A CA 2420518 A1 EP 1315474 A2 WO 0217870 A2	13-03-2002 07-03-2002 04-06-2003 07-03-2002
US 6051216	A	18-04-2000	AT 238371 T AU 730357 B2 AU 8673698 A BR 9811064 A CN 1268151 T DE 69813826 D1 EP 1000112 A1 HU 0002543 A2 JP 2001512164 T NO 20000492 A NZ 502604 A PL 338438 A1 TR 200000438 T2 WO 9906473 A1 US 6353076 B1 ZA 9806823 A	15-05-2003 08-03-2001 22-02-1999 19-09-2000 27-09-2000 28-05-2003 17-05-2000 28-12-2000 21-08-2001 28-03-2000 01-02-2002 06-11-2000 21-12-2000 11-02-1999 05-03-2002 31-01-2000