

**VITAE OF**  
**Anthony J. O'Lenick, Jr.**  
2170 Luke Edwards Road  
Dacula, Ga 30019

Updated 06/2009

**Siltech LLC.**  
Dacula, Ga. 30019

**1989 to Present**

**President**

Siltech LLC., is a private company that develops, manufactures and markets silicone and other specialty products. Siltech's technologies are focused to develop, market and manufacture organo-silicone compounds and related specialties for specific customer applications. Our approach is to combine unit operations in novel ways to optimize products. Our technology includes polymer, fatty, organic, and silicone chemistry.

**Alkaril Chemicals Inc.**  
Winder, Georgia 30680

**1984 to 1989**

**President and Chief Operating Officer**

Alkaril Chemicals was a private company which developed, manufactured and marketed specialty surfactants, polymer and soil release agents. Alkaril concentrated on HI&I and textile markets providing unique products. Alkaril was purchased by GAF in 1989, amalgamated with the surfactants group of GAF and sold a short time later to Rhone Poulenc.

**Henkel Corporation**  
Hoboken, N.J.

**1980 to 1984**

**Technical Director**

Henkel Corporation is a major worldwide company that develops, manufactures and markets surfactants and other fatty chemicals.

**Mona Industries**  
Paterson, N.J.

**1976 to 1980**

**Laboratory Manager Organic Synthesis**

Mona was a specialty chemical company, which develops, manufactures and markets specialty surfactants. It is now part of Uniquema.

*A.J. O'Lenick, Jr.*  
*Publications*

TITLE	DATE	PUBLICATION
1. Fatty Alcohol Sulfates	01/1981	Cosmetic Technology
2. Phosphate Esters	07/1986	SCCS
3. Amphoteric Surfactants	11/1986	HAPPI
4. Guerbet Alcohols	04/1987	SCCS
5. Alkoxylated Alcohols	01/1988	SCCS
6. Patents	07/1988	Today's Chemist
7. Fatty Esters	07/1988	HAPPI
8. Sulfosuccinates	10/1988	SCCS
9. Metal Lubricants	02/1989	Research & Development
10. Group Selectivity of Ethoxylation	11/1993	JSCC
11. Silicone Phosphobetaines	03/1994	Cosmetics and Toiletries
12. Silicone Quaternary Compounds	05/1994	Cosmetics and Toiletries
13. Silanol Esters	08/1994	SCCS
14. Silicone Proteins	10/1994	SCCS
15. Ester Kinetics	11/1994	JSCC
16. Corporate Philosophy	05/1995	The Chemist
17. Phosphate Esters	11/1995	AATCC
18. Ethoxylation Kinetics	01/1996	JAACS
19. Carboxy Silicone Quat Complexes	04/1996	Cosmetics and Toiletries

20. Dimethicone Copolyol Phosphates to Increase Sun Protection Facto	05/1996	SCCS
21. Effects of Branching Upon Surfactant Properties of Sulfated Alcohols	07/1996	JAOCS
22. Branched Esters	09/1996	Cosmetics and Toiletries
23. Surface Active Agents	09/1996	The Chemist
24. Three Dimensional HLB	10/1996	Cosmetics and Toiletries
25. Chemistry of Phosphate Esters	04/1997	Chimica Oggi
26. Applying 3D HLB	11/1997	Cosmetics and Toiletries
27. Amino Silicone Compounds	5/1998	Cosmetics and Toiletries
28. Guerbet Branching	9/1998	The Chemist
29. Soil Release Polymers	11/1999	Journal of Surfactants and Detergents
30. Liquid Cosmetic Esters Using Propoxylation Technology	1/2000	Cosmetics and Toiletries
31. Effects of Branching and Unsaturation on PEG Esters	4/2000	Journal of Surfactants and Detergents
32. Silicone Compounds Structure and Properties	4/2000	Journal of Surfactants and Detergents
33. Dimethicone Copolyols Structure Function Relationship	4/2000	Journal of Society of Cosmetic Chemists
34. Triglycerides: A Primary Ingredient for Making Surfactants (Mentor Series)	9/2000	Cosmetics and Toiletries

**35. Liquid Cosmetic Esters using Propoxylation Technology**

[January-2000] **Cosmetics and Toiletries**

O'Lenick, A Jr

Reacting fatty alcohols with propylene oxide and then derivatizing the products allows the synthesis of cost-effective liquid cosmetic esters having a range of melting points

**36. Triglycerides: A Primary Ingredient for Making Surfactants**

[September-2000] **Cosmetics and Toiletries**

O'Lenick, A Jr

The author discusses natural oils, fats and waxes, and the processes that turn these primary ingredients into surfactants.

**37. PEG/PPG Dimethicone: A New Name for an Old Friend**

[July-2001] **Cosmetics and Toiletries**

O'Lenick, A Jr

Dimethicone copolyol surfactants are now called PEG/PPG dimethicone, a change that reflects their structure as polyethers of dimethicone. Properties of these chemicals are reviewed related to molecular weight.

**38. Castor Polyesters for Personal Care**

[June-2002] **Cosmetics and Toiletries**

O'Lenick, AJ ;LaVay, C

Naturally occurring castor oil and succinic acid can be reacted to make a polyester (such as castor succinate) and then functionalized to provide benefits in cosmetic formulations.

**39. Surface-Active Phospholipids for Personal Care**

[April-2003] **Cosmetics and Toiletries**

O'Lenick, A Jr

Natural phospholipids have many cellular functions such as being constituents of cell membranes. Certain types of products based upon phospholipid chemistry offer desirable surfactant properties including foaming, detergency, while others offer outstanding

**40. Equilibration Reaction of Silicone Fluids**

[May 2004] **Cosmetics and Toiletries**

Anthony J. O'Lenick, Jr., Kirk N. Wiegel and Thomas G. O'Lenick

Silicone compounds resemble organic compounds in their ability to make derivatives, but they are fundamentally different because they are equilibrium products. The nature of the equilibrium

and the composition of the equilibrium mixture are the key factors. This is important because cyclic compounds are undesirable in personal care products.

#### **41. Properties of Surfactants: Wetting**

[July 2005] **Cosmetics and Toiletries**

Anthony J. O'Lenick, Jr.,

This is the second in a series of four articles that will deal with different topics in the field of surfactants. This article covers wetting a very important and often overlooked surfactant property.

#### **42. Properties of Surfactants: Detergency**

[September 2005] **Cosmetics and Toiletries**

Anthony J. O'Lenick, Jr.,

This is the third in a series of articles on the function of surface active agents. The first (March 2005 issue) focused on conditioning, the second (July 2005 issue) covered wetting, and this article highlights detergency. The fourth (to be published in December) will discuss emulsifiers. The concept of detergency as applied to hair and skin should be well developed and rather simple, but as most things in life, that which appears simple often becomes the most complex.

#### **43. Anionic/Cationic Complexes**

[November 2005] **Cosmetics and Toiletries**

Anthony J. O'Lenick, Jr.

There have been a multitude of approaches to the formulation of hair care products that provide multifunctional benefits. This partially is because the various functions expected from products do not co-exist well in one formulation. Consumers demand cleansing, viscosity, foam, wet conditioning (antistat and wet comb), and longer-term conditioning (dry-property conditioning). It would be ideal if a universal surfactant existed that had just the right amount of each property so formulation would be easy, but there is none. Any step toward increasing the level of understanding related to the interaction of surfactants and providing optimized properties in formulation is desirable.

#### **44. Properties of Surfactants: Emulsions**

[December 2005] **Cosmetics and Toiletries**

Anthony J. O'Lenick, Jr.

The metastable nature of two insoluble materials is critical to understanding the nature and performance of emulsions. This metastability and the requirement that the emulsion be cosmetically appealing offer unique challenges to the formulator.

#### **45. Amphoteric Anionic Interactions**

[March 2006] **Cosmetics and Toiletries**

**Tony O'Lenick, Siltech LLC, and Laura Anderson, Rollins College**

A study of interactions between anionic surfactants and amphoteric surfactants in solution demonstrates that betaines and anionic surfactants interact to have positive effects on viscosity, foam and the salt curve.

#### **46. Understanding Silicone**

[May 2006] **Cosmetics and Toiletries**

Anthony J. O'Lenick, Jr

Silicone compounds have achieved outstanding growth in both the type and quantity used in the personal care area. There are in fact few new cosmetic formulations in any market area that do not contain silicone compounds. Despite this outstanding growth in acceptance, the structure function relationship remains elusive to most of today's formulators. This is true even for most of the most technically sophisticated formulators.

#### **47. Anionic Interactions with Cationic Gemini Surfactants**

**Tony O'Lenick, Siltech LLC; Thomas G. O'Lenick, University of Tennessee**

[September 2006] **Cosmetics and Toiletries**

The objective of this paper is to expand the study of interactions between anionic and cationic surfactants to specific Gemini surfactants and to investigate whether their interactions depend upon the linkage group between them

#### **48. Mixed Fatty/Silicone Surfactant Systems**

Anthony J. O'Lenick, Jr., Siltech LLC, Thomas G. O'Lenick, University of Tennessee, Laura Anderson, Rollins College

[August 2007] **Cosmetics and Toiletries**

This article investigates some of the interactions between silicone surfactants and fatty surfactants. Mixtures of these two very different classes of materials can be used by the formulator to alter the aesthetics, maximize effects and minimize costs in personal care formulations.

#### **49. Effect of Branching on Surfactant Properties of Sulfosuccinates**

[November 2007] **Cosmetics and Toiletries**

Tony O'Lenick, Siltech LLC; Kevin O'Lenick, SurfaTech Corp.

Surface-active agents, or surfactants, are molecules that have both a water-soluble and an oil-soluble portion. Since both groups are on the same molecule, they orientate in water to obtain the lowest free energy. Initially this is at the air/water interface where a properly chosen surfactant can provide wetting and foam.

#### *Book Contributions*

Chapter entitled "*Guerbet Derivatives*", Trans World Research, Book Title "Topics in Oil Chemistry", published March 1998.

Chapter entitled "Specialty Silicone Conditioning Agents", Marcel Dekker Book entitled "Conditioning Agents for Hair and Skin", published 1998.

*Primary Ingredients*, Hansotech Inc. published Sept 1998

#### *Books*

Surfactants Chemistry and Applications, Anthony O'Lenick Allured Publishing, 1999.  
Second edition 2005.

Silicones Chemistry and Applications Anthony O'Lenick Allured Publishing, 2003.  
Second Edition 2008.

*Organic Chemistry for Cosmetic Chemists* Anthony O'Lenick Jr. & Thomas O'Lenick Allured Publishing 2007

*Oils of Nature* Anthony O'Lenick et al. Allured Publishing 2007

*Patent Peace of Mind* Louis C. Paul & Anthony J. O'Lenick Allured Publishing 2007

#### *Awards*

##### ***American Oil Chemists' Surfactants and Detergents Division 1996 Samuel Rosen Award***

The award is presented for significant contributions to the advancement of surfactant chemistry. Specifically, the award was presented for research and development in the field of unique silicone based surfactants.

##### ***Advancing Cosmetic Science Award 1997 Outstanding Contributions to the Industry Award***

The award is presented to honor a significant contribution to the Personal Care Industry from an ingredient manufacturer. Specifically, the award was for a paper Three-Dimensional HLB, which is a formulation tool for making emulsions.

***Soap and Detergents Association  
1997 Significant New Use of Fatty Materials Award***

The award is presented to honor a significant new use for fatty materials. Specifically, the award honors the use of fatty materials combining them with silicone to make new surfactants.

***Professional Affiliations***

***Fellow American Institute of Chemists***

***Fellow Society of Cosmetic Chemists***

***Member American Chemical Society***

***Member Board of Directors*** Hansotech Inc. (1996-1998)

**Member of Society of Cosmetic Chemists' Committee on Scientific Affairs (SCC-COSA)** 3 year term 1998-2000.

**Member of Society of Cosmetic Chemists' Education Advisory Committee (SCC-EAC)** 4 year term 2005-2008.

***Society of Cosmetic Chemists Course Silicone Chemistry (1996- Present)***

***Society of Cosmetic Chemists Course Patent Law (2005- Present)***

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U.S. PATENTS (p.1)

# U.S. PATENT -----	TOPIC -----
1) 4,209,449	PHOSPHATE QUATERNARY COMPOUNDS
2) 4,215,064	PHOSPHOBETAINES
3) 4,243,602	QUATERNARY COMPOUNDS
4) 4,261,911	PHOSPHITAINES
5) 4,283,542	PHOSPHOBETAINE PROCESS
6) 4,336,385	IMIDAZOLINE AMPHOTERICS
7) 4,336,386	PHOSPHOBETAINES
8) 4,380,637	IMIDAZOLINE PHOSPHOBETAINES
9) 4,425,458	POLYGUERBET ALCOHOL
10) 4,380,637	IMIDAZOLINE DERIVED PHOSPHOBETAINES
11) 4,476,043	SULFATE SURFACTANT
12) 4,476,044	SULFATE SURFACTANT
13) 4,476,045	SURFACTANT
14) 4,477,372	ANIONIC/ NONIONIC SURFACTANT
15) 4,503,002	PHOSPHATE QUATERNARY COMPOUNDS
16) 4,720,383	QUATERNARY SOFTENERS
17) 4,731,190	GUERBET ALKOXYLATES
18) 4,738,787	CATIONIC SOIL RELEASE POLYMERS
19) 4,767,815	GUERBET ETHER ESTERS
20) 4,787,989	ANIONIC SOIL RELEASE POLYMERS
21) 4,800,077	GUERBET QUATERNARY COMPOUNDS

22) 4,804,483	CATIONIC SOIL RELEASE POLYMERS
23) 4,824,606	HALOGENATED SOIL RELEASE POLYMER
24) 4,830,769	GUERBET ALKOXYLATE ESTERS
25) 4,867,750	ALKOXYLATED POLYESTERS
26) 4,868,236	GUERBET CITRATES
27) 4,871,483	PARTICULATE DEFOAMERS
28) 4,873,003	CATIONIC SOIL RELEASE POLYMERS

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U.S. PATENTS (p.2)

29) 4,873,294	CATIONIC POLYMERS
30) 4,937,277	ALKOXYLATED SILICONE POLYMERS
31) 4,946,625	PARTICULATE DEFOAMERS
32) 4,956,119	PAPER MILL DEFOAMERS
33) 4,958,032	ALKOXYLATED LACTAMS
34) 4,960,540	ALKOXYLATED BIS AMIDES
35) 4,960,845	SULFATED SILICONE POLYMERS
36) 4,973,643	SILICONE ETHER AMINES
37) 4,975,122	WATER RESISTANT GYPSUM
38) 4,983,384	N ALKYL LACTAMS
39) 5,010,173	FREE RADICAL STABILIZED ALKOXYLATE
40) 5,028,719	N LACTAMS
41) 5,034,143	GUERBET LACTAMS
42) 5,034,555	AMIDO SULFATES
43) 5,045,586	THERMOPLASTIC LUBRICANT ESTERS
44) 5,049,680	CATIONIC LACTAM POLYMERS
45) 5,051,489	SILANOL WAXES
46) 5,068,324	AMPHOTERIC POLYMERS
47) 5,070,168	SILICONE WAXES
48) 5,070,171	SILICONE AMINES
49) 5,073,619	SILICONE AMPHOTERICS

50) 5,080,834	NOVEL BRANCHED ESTERS
51) 5,091,493	SILICONE PHOSPHOBETAINES
52) 5,093,452	SILICONE AMINE PHOSPHATES
53) 5,098,746	SILICONE FIBER LUBRICANTS
54) 5,098,979	SILICONE QUATERNARY POLYMERS
55) 5,100,956	SILICONE PROTEIN POLYMERS
56) 5,115,049	SILICONE AMINE SALTS
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57) 5,120,812	SILICONE FREE RADICAL POLYMERS
58) 5,132,138	WOOD SEALING POLYMERS
59) 5,136,063	SILICONE WAXES
60) 5,149,765	TERMINAL SILICONE PHOSPHATES
61) 5,153,294	SILICONE QUATERNARY POLYMERS
62) 5,162,472	SILICONE FREE RADIAL POLYMERS
63) 5,164,471	FLOURINE SILICONE POLYMERS
64) 5,166,297	SILICONE QUATERNARY POLYMERS
65) 5,171,875	BETA BRANHED BORATE ESTERS
66) 5,175,327	SILANOL ALKOXYLATES
67) 5,180,843	SILICONE ESTERS
68) 5,183,845	POLYMER TREATMENT COMPOSITIONS
69) 5,196,499	TERMINAL SILICONE QUATS
70) 5,196,589	ACRYLONITRILE REACTIONS
71) 5,210,133	SILICONE DELIVERY SYSTEMS
72) 5,226,923	SILICONE ESTERS AS CONDITIONERS
73) 5,235,017	FLUORINE SILICONE POLYMERS
74) 5,237,035	SILICONE PHOSPHOLIPIDS
75) 5,238,985	THERMOPLASTIC MOLDING ESTERS
76) 5,243,028	SILICONE PROTEIN POLYMERS
77) 5,247,111	SILICONE ALKANOLAMIDES

78) 5,248,783	SILICONE AKLOXYLATED ESTER SALTS
79) 5,256,805	SILICONE AMIDO AMINE SALTS
80) 5,260,055	AMINO SILICONE SALTS
81) 5,260,401	SILICONE FLOURINE POLYESTERS
82) 5,274,101	POLYMERIC PHOSPHOLIPIDS
83) 5,280,099	SILICONE TAURINE POLYMERS
84) 5,286,830	SILICONE TAURINE DERIVATIVES
85) 5,292,847	SILICONE ALKOXYLATES

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U.S. PATENTS (p.4)

86) 5,296,625	SILICONE CARBOXYLATE POLYMERS
87) 5,298,656	ESTER QUATERNARY COMPOUNDS
88) 5,300,666	SILICONE ISETHIONATES
89) 5,321,968	FLUORO CITRATE GUERBET ESTERS
90) 5,350,858	ESTER IMIDAZOLIUM QUATS
91) 5,374,759	SILICONE LACTATES
92) 5,378,787	SILICONE AMINES
93) 5,411,729	SILICONE HUMECTANTS
94) 5,428,142	SILICONE GLYCOSIDES
95) 5,432,217	VINYL AND RUBBER TREATMENT
96) 5,444,154	CROSSLINKED PROTEIN POLYMERS
97) 5,446,114	FLUORINATED DIMETHICONE COPOLYOL
98) 5,446,183	SILICONE EMULSIFIERS
99) 5,446,184	GLYCERYL SILICONES
100) 5,460,856	SILICONE EMULSIFIERS
101) 5,473,038	FLUORO-ALKYL SILICONES
102) 5,475,125	SILICONE POLYESTER EMULSIFIERS
103) 5,486,631	SILICONE MODIFIED ZINC OXIDE
104) 5,488,121	DI-GUERBET ESTERS
105) 5,498,703	SILICONE GLYCOSIDES

- 106) 5,523,445 SILICONE AROMATIC EMULSIFIERS  
107) 5,536,492 SILICONE COATED ZnO  
108) 5,550,219 SILICONE POLYMERS  
109) 5,562,897 METHOD FOR PROTECTING SKIN  
110) 5,565,591 TITANIUM DIOXIDE SURFACE MODIFICATION  
111) 5,581,001 NOVEL BRANCHED ESTERS  
112) 5,591,880 SILICONE ESTER AMINO COMPOUNDS  
113) 5,602,224 SILICONE ALKYL QUATS  
114) 5,639,791 DIGUERBET ESTERS

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U.S. PATENTS (p.5)

- 115) 5,639,897 AMIDO AMPHOTERICS  
116) 5,646,321 GUERBET MEADOWFOAM ESTERS  
117) 5,650,529 SILICONE ESTER AMINES  
118) 5,656,664 BRANCHED ESTERS IN PERSONAL CARE  
119) 5,717,119 GUERBET PEG ESTERS  
120) 5,733,533 SILICONE BEESWAX ESTERS  
121) 5,736,571 GUERBET MEADOWFOAM ESTERS  
122) 5,739,371 AMPHOTERIC SILICONE COMPLEXES  
123) 5,741,915 MEADOWFOAM BETAINES  
124) 5,741,916 MEADOWFOAM ALKANOLAMIDS  
125) 5,741,919 COMPLEX MEADOWFOAM ESTERS  
126) 5,744,626 COMPLEX GUERBET ESTERS  
127) 5,756,785 GUERBET BETAINES  
128) 5,756,788 SILICONE POLYMEERS  
129) 5,760,260 MEADOWFOAM ESTER  
130) 5,770,751 MEADOWFOAM SULFOSUCCINATE  
131) 5,780,643 MEADOWFOAM IMIDAZOLINE  
132) 5,786,388 MEADOWFOAM ESTER IN COSMETICS  
133) 5,786,389 GUERBET CASTOR ESTER

134) 5,817,846 MEADOWFOAM ALKOXYLATED  
135) 5,834,517 MEADOWFOAM SULFOSUCCINATES  
136) 5,834,516 MEADOWFOAM BETAINES  
137) 5,834,517 MEADOWFOAM SULFOSUCCINATES  
138) 5,843,419 FREE RADICAL POLYMERS  
139) 5,854,319 REACTIVE SILICONE EMULSIONS WITH AMINO ACIDS  
140) 5,854,407 REACTIVE SILICONE EMULSIONS  
141) 5,859,161 IRRITATION MITIGATION  
142) 5,883,279 SILICONE SALICYLATE ESTERS

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U.S. PATENTS (p.6)

143) 5,888,485 BEESWAX SILANOL ESTERS  
144) 5,888,486 ANTIPERSPIRANTS  
145) 5,907,049 MEADOWFOAM AMINE OXIDES  
146) 5,908,949 ALKOXYLATED SILICONE SALICYLIC ESTERS  
147) 5,917,070 POLYOXYALKYLENE MEADOWFOAM  
148) 5,919,743 GUERBET QUATS IN PERSONAL CARE  
149) 5,919,958 MEADOWFOAM DMAPA SALTS  
150) 5,919,959 GUERBET BRANCHED AMINE OXIDES  
151) 5,929,263 GUERBET QUATS  
152) 5,929,268 SILICONE LACTYLATE  
153) 5,932,754 MEADOWFOAM QUATS  
154) 5,948,391 SILICONE SALICYLATES IN PERSONAL CARE  
155) 5,961,964 FREE RADICAL POLYMERS  
156) 5,969,177 FLUORO CARBOXY SILICONE  
157) 5,985,806 TELOMERIZED COMPLEX ESTER TRIGLYCERIDES  
158) 5,986,119 RECONSTITUTED CASTOR OIL  
159) 6,004,542 SILICONE SALICYLATE ESTERS  
160) 6,005,136 ALKOXYLATED FLUORO ESTERS  
161) 6,008,397 SILICONE FLUORO ESTERS  
162) 6,013,818 RECONSTITUTED MEADOWFOAM OIL

163)	6,013,813	GUERBET BASED SORBITAN ESTERS
164)	6,013,818	RECONSTITUTED MEADOWFOAM
165)	6,060,619	SILICONE FLUORO ESTERS
166)	6,069,273	SILICONE LACTYLATES
167)	6,087,522	SILICONE LANOLIN ESTERS
168)	6,087,517	FLUORO DIMETHICONE COPOLYOL PHOSPHATE
169)	6,114,561	SILICONE SUNSCREENING AGENT
170)	6,114,585	ETHER AMINES FROM PENTENE NITRILE
171)	6,175,028	SILICONE ALKYL PHOSPHATE ESTERS
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172)	6,180,668	RECONSTITUTED MEADOWFOAM OIL IN PERSONAL CARE
173)	6,180,806	GLYCERYL PHOSPHOBETAINE COMPOUNDS
174)	6,201,143	FREE RADICAL POLYMERS BASED UPON MEADOWFOAM
175)	6,229,038	DICARBOXY ALKYL PHOSPHATE ESTERS
176)	6,239,290	SILICONE FUNCTIONALIZED SORBITAN ESTERS
177)	6,252,107	CARBOXY AMPHOTERIC COMPLEXES
178)	6,258,965	RECONSTITUTED MEADOWFOAM OIL
179)	6,306,373	PHTHALIMIDES AS SUN SCREEN SOLVENTS
180)	6,306,906	RECONSTITUTED MEADOWFOAM OIL
181)	6,313,256	DIMETHICONE AMIDO QUATS
182)	6,313,329	SILICONE EUGANOL ESTERS
183)	6,331,293	DIMER AMIDO PHOSPHOLIPIDS
184)	6,331,648	ETHER AMINES
185)	6,342,527	POLYMERIC CASTOR POLYESTERS
186)	6,346,595	AROMATIC SILICONE SUNSCREEN AGENTS
187)	6,346,648	AMPHOTERIC SURFACTANTS
188)	6,362,233	METHOXY CAPPED GLYCERIN COMPOUNDS
189)	6,365,774	CARBOXYLATED SURFACTANTS
190)	6,372,934	WATER SOLUBLE COMPLEXES
191)	6,383,232	PROCESS FOR CONDITIONING HAIR

- 192) 6,384,173 SILICONE FUNCTIONAL TRICLOSAN
- 193) 6,384,248 MEADOWFOAM BASED SORBITAN ESTERS
- 194) 6,388,042 DIMETHICONE COPOLYOL ESTERS
- 195) 6,410,679 CATIONIC COMPLEXES OF ALKYLENE GLYCOL  
DICARBOXYLATES
- 196) 6,417,401 ETHER DIAMINE AMINE OXIDES
- 197) 6,426,436 ETHER DIAMINE QUATS
- 198) 6,437,162 PROCESS FOR MAKING LOW ORDER DIMETHICONE COPOLYOLS
- 199) 6,451,775 CASTOR AMIDO PHOSPHOLIPIDS AS EMULSIFIERS

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U.S. PATENTS (p.8)

- 200) 6,458,999 ETHER DIAMINES AND DERIVITIVES
- 201) 6,461,598 PROCESS FOR CONDITIONING HAIR
- 202) 6,465,673 SILICONE ROSINATE ESTERS
- 203) 6,498,263 ALKOXYLATED SILICONE CARBOXYLATE-AMIDOCATIONIC  
COMPLEXES IN PERSONAL CARE APPLICATIONS
- 204) 6,500,414 AROMATIC DIMETHICONE COPOLYOL POLYMERS AS SUNSCREEN  
AGENTS
- 205) 6,521,220 POLYMERIC CASTOR POLYESTER QUATERNARY COMPOUNDS
- 206) 6,524,705 SILICONE SURFACE TREATED METAL OXIDES
- 207) 6,528,667 PHOSPHATED CASTOR OIL AND DERIVATIVES
- 208) 6,537,531 HYDROLYTICALLY STABLE ESTERS
- 209) 6,545,052 METHODS AND COMPOSITIONS FOR INHIBITING FREE RADICAL  
POLYMERIZATION IN SKIN AND HAIR
- 210) 6,551,997 ENGINEERED POLYPEPTIDES IN PERSONAL CARE APPLICATIONS
- 211) 6,566,474 PHOSPHATE POLYMERS

- 212) 6,569,975 PHOSPHATE POLYMERS
- 213) 6,582,686 WATER SOLUBLE CONDITIONING COMPLEXES
- 214) 6,586,465 ESTERS
- 215) 6,610,751 BIMODAL GUERBET ALKOXYLATES AS EMULSIFIERS
- 216) 6,620,794 GUERBET FUNCTIONALIZED PHOSPHOLIPIDS
- 217) 6,627,612 Surfactants based upon alkyl polyglycosides
- 218) 6,630,180 Dimethicone copolyol raspberriate as natural antioxidants

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U.S. PATENTS (p.9)

- 219) 6,642,192 Amphoteric surfactants in personal care applications
- 220) 6,642,193 Carboxylated surfactants in personal care applications
- 221) 6,646,144 Dimethicone copolyol cranberriate as a delivery system for natural antioxidants
- 222) 6,649,578 Di-carboxy alkyl phosphate esters in personal care applications
- 223) 6,670,441 Polymeric castor dimer polyesters
- 224) 6,683,032 Multifunctional phospholipid surfactants
- 225) 6,706,259 Hydrolytically stable esters
- 226) 6,727,340 Fluoro alkyl dimethicone copolyol esters
- 227) 6,747,116 Phosphated fluoro alkyl dimethicone copolyol esters
- 228) 6,762,289 Silicone functionalized alkyl polyglucoside surfactants
- 229) 6,777,521 Silicone sulfate polymers
- 230) 6,787,129 Castor polyester as gloss agents in anionic systems
- 231) 6,794,524 Ester based phosphobetaine compounds

- 232) 6,797,836 Raspberry alkoxy esters as a delivery system for natural antioxidants
- 233) 6,800,275 Capped dimer acid polyesters in personal care applications
- 234) 6,800,741 Alkoxylated surfactants based upon alkyl polyglycoside
- 235) 6,840,469 Process for coating particulates with phosphated castor oil
- 236) 6,841,640 Multifunctional phosphate polymers
- 237) 6,841,649 Fluoro alkyl dimethicone esters
- 238) 6,861,542 Dimer amidopropyl dimethyl quaternary compounds
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- 239) 6,867,317 Alkoxylated silicone carboxylate-polymeric cationic complexes used in personal care applications
- 240) 6,869,977 Skin moisturization compound
- 241) 6,878,682 Capped nonionic surfactants
- 242) 6,881,710 Personal care products based upon surfactants based upon alkyl polyglucoside quaternary compounds
- 243) 6,891,051 Silicone Erucate Esters
- 244) 6,958,315 Amphoteric surfactants based upon alkyl polyglucoside
- 245) 6,972,123 Polymeric castor polyester quaternary compounds based upon dimer acid
- 246) 6,972,316 Polyesters having improved water affinity
- 247) 6,972,338 Alkoxylated mono alkyl glyceryl ester phosphobetaine compounds
- 248) 6,979,744 Dimer amidopropyl dimethyl betaines
- 249) 6,982,078 Dimer amidopropyl dimethyl poly-quaternary compounds

- 250) 7,008,930 Non-ionic surfactants based upon alkyl polyglucoside
- 251) 7,038,005 Guerbet capped polyesters
- 252) 7,045,506 Personal care applications of surfactants based upon alkyl polyglycosides
- 253) 7,049,476 Guerbet polymers
- 254) 7,056,350 Process and composition for dyeing hair utilizing cationic meadowfoam conditioning agents
- 255) 7,078,545 Raspberry amido amines and betaines as a delivery system for natural antioxidants

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- 256) 7,084,129 Antimicrobial quaternary surfactants based upon alkyl polyglycoside
- 257) 7,087,571 Alkyl polyglycoside derived sulfosuccinates
- 258) 7,118,735 Cosmetic composition
- 259) 7,119,125 Bi-modal Guerbet alkoxy sulfate surfactants
- 260) 7,132,540 Hindered spiro-ketal nitroxides
- 261) 7,132,558 Silicone vitamin esters
- 262) 7,148,256 Dimer poly-quaternary ester compounds
- 263) 7,157,104 Guerbet cranberry esters as a delivery system for natural antioxidants
- 264) 7,157,105 Cranberry alkoxy esters as a delivery system for natural antioxidants
- 265) 7,169,413 Guerbet raspberry esters as a delivery system for natural antioxidants
- 266) 7,182,940 Shea butter esters

- 267) 7,183,424 Shea butter alkanolamides
- 268) 7,186,852 Shea butter dimethyl amidopropyl amines
- 269) 7,189,683 Non-ionic surfactants based upon alkyl polyglycoside
- 270) 7,193,111 Dimer poly-quaternary compounds
- 271) 7,195,786 Cranberry amido amines and betaines as a delivery system for natural antioxidants
- 272) 7,247,696 Alkyl dimethicone copolyol sulfosuccinates
- 273) 7,259,226 Polyesters based upon the reaction of dimer acid, dimer alcohol and Guerbet alcohol

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- 275) 7,291,323 Silicone lubricating and conditioning compositions
- 276) 7,335,627 Polymeric alkylpolyglycoside carboxylates
- 277) 7,335,720 Polyesters based upon dimer acid in personal care
- 278) 7,344,708 Silicone polyester resins
- 279) 7,361,721 Crosslinked silicone polymers
- 280) 7,375,064 Functionalized polymeric surfactants based upon alkyl polyglycosides
- 281) 7,407,666 Linear silicone resins in personal care applications
- 282) 7,449,494 Polymeric skin moisturizing compounds
- 283) 7,452,382 Polymeric silicone polysorbate softeners
- 284) 7,462,729 Silicone spider esters in personal care application

285) 7,473,707 Spider esters in personal care applications

286) 7,495,062 Silicone methoxy ester compositions

287) 7,507,399 Functionalized polymeric surfactants based upon alkyl polyglycosides

288) 7,544,824 Shea butter alkoxyates