

VITAE OF
Anthony J. O'Lenick, Jr.
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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 organosilicone 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

<i>TITLE</i>	<i>DATE</i>	<i>PUBLICATION</i>
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	JAOCS
19. Carboxy Silicone Quat Complexes	04/1996	Cosmetics and Toiletries
20. Dimethicone Copolyol Phosphates to Increase Sun Protection Factor	05/1996	SCCS

A.J. O'Lenick, Jr.
Publications

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. **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.

Monthly Column Cosmetics and Toiletries Comparatively Speaking

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.

Books

Primary Ingredients, Hansotech Inc. 1998

Surfactants Chemistry and Applications, Allured 1999. Second edition 2005.

Silicones Chemistry and Applications Allured 2003. Second Edition 2008

Oils of Nature Allured 2008

Organic Chemistry for Cosmetic Chemists Allured 2008

Patent Peace of Mind Allured 2008

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) 3 year term 2005-2008.

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

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

Anthony J. O'Lenick, Jr.
U.S. PATENTS

# 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) 4,425,458	POLYGUERBET ALCOHOL
9) 4,380,637	IMIDAZOLINE DERIVED PHOSPHOBETAINES

10) 4,476,043	SULFATE SURFACTANT
11) 4,476,044	SULFATE SURFACTANT
12) 4,476,045	SURFACTANT
13) 4,477,372	ANIONIC/ NONIONIC SURFACTANT
14) 4,503,002	PHOSPHATE QUATERNARY COMPOUNDS
15) 4,720,383	QUATERNARY SOFTENERS
16) 4,731,190	GUERBET ALKOXYLATES
17) 4,738,787	CATIONIC SOIL RELEASE POLYMERS
18) 4,767,815	GUERBET ETHER ESTERS
19) 4,787,989	ANIONIC SOIL RELEASE POLYMERS
20) 4,800,077	GUERBET QUATERNARY COMPOUNDS
21) 4,804,483	CATIONIC SOIL RELEASE POLYMERS
22) 4,824,606	HALOGENATED SOIL RELEASE POLYMER
23) 4,830,769	GUERBET ALKOXYLATE ESTERS
24) 4,867,750	ALKOXYLATED POLYESTERS
25) 4,868,236	GUERBET CITRATES
26) 4,871,483	PARTICULATE DEFOAMERS
27) 4,873,003	CATIONIC SOIL RELEASE POLYMERS
28) 4,873,294	CATIONIC POLYMERS
29) 4,937,277	ALKOXYLATED SILICONE POLYMERS
30) 4,946,625	PARTICULATE DEFOAMERS
31) 4,956,119	PAPER MILL DEFOAMERS
32) 4,958,032	ALKOXYLATED LACTAMS
33) 4,960,540	ALKOXYLATED BIS AMIDES
34) 4,960,845	SULFATED SILICONE POLYMERS
35) 4,973,643	SILICONE ETHER AMINES
36) 4,975,122	WATER RESISTANT GYPSUM
37) 4,983,384	N ALKYL LACTAMS
38) 5,010,173	FREE RADICAL STABILIZED ALKOXYLATE
39) 5,028,719	N LACTAMS
40) 5,034,143	GUERBET LACTAMS
41) 5,034,555	AMIDO SULFATES
42) 5,045,586	THERMOPLASTIC LUBRICANT ESTERS
43) 5,049,680	CATIONIC LACTAM POLYMERS
44) 5,051,489	SILANOL WAXES

45) 5,068,324	AMPHOTERIC POLYMERS
46) 5,070,168	SILICONE WAXES
47) 5,070,171	SILICONE AMINES
48) 5,073,619	SILICONE AMPHOTERICS
49) 5,080,834	NOVEL BRANCHED ESTERS
50) 5,091,493	SILICONE PHOSPHOBETAINES
51) 5,093,452	SILICONE AMINE PHOSPHATES
52) 5,098,746	SILICONE FIBER LUBRICANTS
53) 5,098,979	SILICONE QUATERNARY POLYMERS
54) 5,100,956	SILICONE PROTEIN POLYMERS
55) 5,115,049	SILICONE AMINE SALTS
56) 5,120,812	SILICONE FREE RADICAL POLYMERS
57) 5,132,138	WOOD SEALING POLYMERS
58) 5,136,063	SILICONE WAXES
59) 5,149,765	TERMINAL SILICONE PHOSPHATES
60) 5,153,294	SILICONE QUATERNARY POLYMERS
61) 5,162,472	SILICONE FREE RADIAL POLYMERS
62) 5,164,471	FLUORINE SILICONE POLYMERS
63) 5,166,297	SILICONE QUATERNARY POLYMERS
64) 5,171,875	BETA BRANCHED BORATE ESTERS
65) 5,175,327	SILANOL ALKOXYLATES
66) 5,180,843	SILICONE ESTERS
67) 5,183,845	POLYMER TREATMENT COMPOSITIONS
68) 5,196,499	TERMINAL SILICONE QUATS
69) 5,196,589	ACRYLONITRILE REACTIONS
70) 5,210,133	SILICONE DELIVERY SYSTEMS
71) 5,226,923	SILICONE ESTERS AS CONDITIONERS
72) 5,235,017	FLUORINE SILICONE POLYMERS
73) 5,237,035	SILICONE PHOSPHOLIPIDS
74) 5,238,985	THERMOPLASTIC MOLDING ESTERS
75) 5,243,028	SILICONE PROTEIN POLYMERS
76) 5,247,111	SILICONE ALKANOLAMIDES
77) 5,248,783	SILICONE AKLOXYLATED ESTER SALTS
78) 5,256,805	SILICONE AMIDO AMINE SALTS

79) 5,260,055	AMINO SILICONE SALTS
80) 5,260,401	SILICONE FLOURINE POLYESTERS
81) 5,274,101	POLYMERIC PHOSPHOLIPIDS
82) 5,280,099	SILICONE TAURINE POLYMERS
83) 5,286,830	SILICONE TAURINE DERIVATIVES
84) 5,292,847	SILICONE ALKOXYLATES
85) 5,296,625	SILICONE CARBOXYLATE POLYMERS
86) 5,298,656	ESTER QUATERNARY COMPOUNDS
87) 5,300,666	SILICONE ISETHIONATES
88) 5,321,968	FLUORO CITRATE GUERBET ESTERS
89) 5,350,858	ESTER IMIDAZOLIUM QUATS
90) 5,374,759	SILICONE LACTATES
91) 5,378,787	SILICONE AMINES
92) 5,411,729	SILICONE HUMECTANTS
93) 5,428,142	SILICONE GLYCOSIDES
94) 5,432,217	VINYL AND RUBBER TREATMENT
95) 5,444,154	CROSSLINKED PROTEIN POLYMERS
96) 5,446,114	FLUORINATED DIMETHICONE COPOLYOL
97) 5,446,183	SILICONE EMULSIFIERS
98) 5,446,184	GLYCERYL SILICONES
99) 5,460,856	SILICONE EMULSIFIERS
100) 5,473,038	FLUORO-ALKYL SILICONES
101) 5,475,125	SILICONE POLYESTER EMULSIFIERS
102) 5,486,631	SILICONE MODIFIED ZINC OXIDE
103) 5,488,121	DI-GUERBET ESTERS
104) 5,490,494	SILICONE MODIFIED ZINC OXIDE
105) 5,498,703	SILICONE GLYCOSIDES
106) 5,523,445	SILICONE AROMATIC EMULSIFIERES
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
	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
1	131)	5,780,643	MEADOWFOAM IMIDAZOLINE
1	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
	139)	5,883,279	SILICONE SALICYLATE ESTERS
	142)	5,888,485	BEESWAX SILANOL ESTERS
	143)	5,888,486	ANTIPERSPIRANTS
	144)	5,908,949	ALKOXYLATED SILICONE SALICYLIC ESTERS
	145)	5,917,070	POLYOXYALKYLENE MEADOWFOAM
	146)	5,919,743	GUERBET QUATS IN PERSONAL CARE
	147)	5,919,958	MEADOWFOAM DMAPA SALTS

- 148) 5,919,959 GUERBET BRANCHED AMINE OXIDES
- 149) 5,929,263 GUERBET QUATS
- 150) 5,929,268 SILICONE LACTYLATES
- 151) 5,932,754 MEADOWFOAM QUATS
- 152) 5,948,391 SILICONE SALICYLATES IN PERSONAL CARE
- 153) 5,961,964 FREE RADICAL POLYMERS
- 154) 5,969,177 FLUORO CARBOXY SILICONE
- 155) 5,985,806 TELOMERIZED COMPLEX ESTER TRIGLYCERIDES
- 156) 5,986,119 RECONSTITUTED CASTOR OIL
- 157) 6,004,542 SILICONE SALICYLATE ESTERS
- 158) 6,005,136 ALKOXYLATED FLUORO ESTERS
- 159) 6,008,397 SILICONE FLUORO ESTERS
- 160) 6,013,818 RECONSTITUTED MEADOWFOAM OIL
- 161) 6,013,813 GUERBET BASED SORBITAN ESTERS
- 162) 6,013,818 RECONSTITUTED MEADOWFOAM
- 163) 6,060,619 SILICONE FLUORO ESTERS
- 164) 6,069,273 SILICONE LACTYLATES
- 165) 6,087,522 SILICONE LANOLIN ESTERS
- 166) 6,087,517 FLUORO DIMETHICONE COPOLYOL PHOSPHATE
- 167) 6,114,561 SILICONE SUNSCREENING AGENT
- 168) 6,114,585 ETHER AMINES FROM PENTENE NITRILE
- 169) 6,175,028 SILICONE ALKYL PHOSPHATE ESTERS
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- 170) 6,180,668 RECONSTITUTED MEADOWFOAM OIL IN PERSONAL CARE
- 171) 6,180,806 GLYCERYL PHOSPHOBETAINE COMPOUNDS
- 172) 6,201,143 FREE RADICAL POLYMERS BASED UPON MEADOWFOAM ESTERS
- 173) 6,229,038 DICARBOXY ALKYL PHOSPHATE ESTERS
- 174) 6,239,290 SILICONE FUNCTIONALIZED SORBITAN ESTERS
- 175) 6,252,107 CARBOXY AMPHOTERIC COMPLEXES
- 176) 6,258,965 RECONSTITUTED MEADOWFOAM OIL
- 177) 6,306,373 PHTHALIMIDES AS SUN SCREEN SOLVENTS
- 178) 6,306,906 RECONSTITUTED MEADOWFOAM OIL
- 179) 6,313,256 DIMETHICONE AMIDO QUATS
- 180) 6,313,329 SILICONE EUGANOL ESTERS
- 181) 6,331,293 DIMER AMIDO PHOSPHOLIPIDS
- 182) 6,331,648 ETHER AMINES

- 183) 6,342,527 POLYMERIC CASTOR POLYESTERS
- 184) 6,346,595 AROMATIC SILICONE SUNSCREEN AGENTS
- 185) 6,346,648 AMPHOTERIC SURFACTANTS
- 186) 6,362,233 METHOXY CAPPED GLYCERIN COMPOUNDS
- 187) 6,365,774 CARBOXYLATED SURFACTANTS
- 188) 6,372,934 WATER SOLUBLE COMPLEXES
- 189) 6,383,232 PROCESS FOR CONDITIONING HAIR
- 190) 6,384,173 SILICONE FUNCTIONAL TRICLOSAN
- 191) 6,384,248 MEADOWFOAM BASED SORBITAN ESTERS
- 192) 6,388,042 DIMETHICONE COPOLYOL ESTERS
- 193) 6,410,679 CATIONIC COMPLEXES OF ALKYLENE GLYCOL DICARBOXYLATES
- 194) 6,417,401 ETHER DIAMINE AMINE OXIDES
- 195) 6,426,436 ETHER DIAMINE QUATS
- 196) 6,437,162 PROCESS FOR MAKING LOW ORDER DIMETHICONE COPOLYOLS
- 197) 6,451,775 CASTOR AMIDO PHOSPHOLIPIDS AS EMULSIFIERS
- 198) 6,458,999 ETHER DIAMINES AND DERIVATIVES
- 199) 6,461,598 PROCESS FOR CONDITIONING HAIR
- 200) 6,465,673 SILICONE ROSINATE ESTERS
- 201) 6,498,263 ALKOXYLATED SILICONE CARBOXYLATE-AMIDOCATIONIC
COMPLEXES IN PERSONAL CARE APPLICATIONS
- 202) 6,500,414 AROMATIC DIMETHICONE COPOLYOL POLYMERS AS SUNSCREEN
AGENTS
- 203) 6,521,220 POLYMERIC CASTOR POLYESTER QUATERNARY COMPOUNDS
- 204) 6,524,705 SILICONE SURFACE TREATED METAL OXIDES
- 205) 6,528,667 PHOSPHATED CASTOR OIL AND DERIVATIVES
- 206) 6,537,531 HYDROLYTICALLY STABLE ESTERS
- 207) 6,545,052 METHODS AND COMPOSITIONS FOR INHIBITING FREE RADICAL
POLYMERIZATION IN SKIN AND HAIR
- 208) 6,551,997 ENGINEERED POLYPEPTIDES IN PERSONAL CARE APPLICATIONS
- 209) 6,566,474 PHOSPHATE POLYMERS
- 210) 6,569,975 PHOSPHATE POLYMERS
- 211) 6,582,686 WATER SOLUBLE CONDITIONING COMPLEXES

- 212) 6,586,465 ESTERS
- 213) 6,610,751 BIMODAL GUERBET ALKOXYLATES AS EMULSIFIERS
- 214) 6,620,794 GUERBET FUNCTIONALIZED PHOSPHOLIPIDS
- 215) 6,627,612 Surfactants based upon alkyl polyglycosides
- 216) 6,630,180 Dimethicone copolyol raspberriate as natural antioxidants
- 217) 6,642,192 Amphoteric surfactants in personal care applications
- 218) 6,642,193 Carboxylated surfactants in personal care applications
- 219) 6,646,144 Dimethicone copolyol cranberriate as a delivery system for natural antioxidants
- 220) 6,649,578 Di-carboxy alkyl phosphate esters in personal care applications
- 221) 6,670,441 Polymeric castor dimer polyesters
- 222) 6,683,032 Multifunctional phospholipid surfactants
- 223) 6,706,259 Hydrolytically stable esters
- 224) 6,727,340 Fluoro alkyl dimethicone copolyol esters
- 224) 6,747,116 Phosphated fluoro alkyl dimethicone copolyol esters
- 225) 6,762,289 Silicone functionalized alkyl polyglucoside surfactants
- 226) 6,777,521 Silicone sulfate polymers
- 227) 6,787,129 Castor polyester as gloss agents in anionic systems

- 228) 6,794,524 Ester based phosphobetaine compounds
- 229) 6,797,836 Raspberry alkoxy esters as a delivery system for natural antioxidants
- 230) 6,800,275 Capped dimer acid polyesters in personal care applications
- 231) 6,800,741 Alkoxyated surfactants based upon alkyl polyglycoside
- 232) 6,840,469 Process for coating particulates with phosphated castor oil
- 233) 6,841,640 Multifunctional phosphate polymers
- 234) 6,841,649 Fluoro alkyl dimethicone esters
- 235) 6,861,542 Dimer amidopropyl dimethyl quaternary compounds

- 236) 6,867,317 Alkoxyated silicone carboxylate-polymeric cationic complexes used in personal care applications
- 237) 6,869,977 Skin moisturization compound
- 238) 6,878,682 Capped nonionic surfactants
- 239) 6,881,710 Personal care products based upon surfactants based upon alkyl polyglucoside quaternary compounds
- 240) 6,891,051 Silicone Erucate Esters
- 241) 6,958,315 Amphoteric surfactants based upon alkyl polyglucoside
- 242) 6,972,123 Polymeric castor polyester quaternary compounds based upon dimer acid
- 245) 6,972,316 Polyesters having improved water affinity
- 246) 6,972,338 Alkoxyated mono alkyl glyceryl ester phosphobetaine compounds
- 247) 6,979,744 Dimer amidopropyl dimethyl betaines
- 248) 6,982,078 Dimer amidopropyl dimethyl poly-quaternary compounds
- 249) 7,008,930 Non-ionic surfactants based upon alkyl polyglucoside
- 250) 7,038,005 Guerbet capped polyesters
- 251) 7,045,506 Personal care applications of surfactants based upon alkyl polyglycosides
- 252) 7,049,476 Guerbet polymers
- 253) 7,056,350 Process and composition for dyeing hair utilizing cationic meadowfoam conditioning agents
- 254) 7,078,545 Raspberry amido amines and betaines as a delivery system for natural antioxidants
- 255) 7,084,129 Antimicrobial quaternary surfactants based upon alkyl polyglycoside
- 256) 7,087,571 Alkyl polyglycoside derived sulfosuccinates
- 257) 7,118,735 Cosmetic composition
- 258) 7,119,125 Bi-modal Guerbet alkoxy sulfate surfactants
- 259) 7,132,540 Hindered spiro-ketal nitroxides

- 260) 7,132,558 Silicone vitamin esters
- 261) 7,148,256 Dimer poly-quaternary ester compounds
- 262) 7,157,104 Guerbet cranberry esters as a delivery system for natural antioxidants
- 263) 7,157,105 Cranberry alkoxy esters as a delivery system for natural antioxidants
- 264) 7,169,413 Guerbet raspberry esters as a delivery system for natural antioxidants
- 265) 7,182,940 Shea butter esters
- 266) 7,183,424 Shea butter alkanolamides
- 267) 7,186,852 Shea butter dimethyl amidopropyl amines
- 268) 7,189,683 Non-ionic surfactants based upon alkyl polyglycoside
- 269) 7,193,111 Dimer poly-quaternary compounds
- 270) 7,195,786 Cranberry amido amines and betaines as a delivery system for natural antioxidants
- 271) 7,247,696 Alkyl dimethicone copolyol sulfosuccinates
- 272) 7,259,226 Polyesters based upon the reaction of dimer acid, dimer alcohol and Guerbet alcohol
- 273) 7,279,503 Water in oil emulsions
- 274) 7,291,323 Silicone lubricating and conditioning compositions
- 275) 7,335,627 Polymeric alkylpolyglycoside carboxylates
- 276) 7,335,720 Polyesters based upon dimer acid in personal care
- 277) 7,344,708 Silicone polyester resins