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(54) Title: COSMETIC CLEANSER

(57) Abstract: The present invention provides a cleanser composition which includes Phytessence™ cotton (gossypium harbaceum seed extract), carthamus tinctorius (safflower) seed oil, allantoin, tocopheryl acetate, and polyquaternium-10. The cleanser is gentle and is ideal for use on the face and any sensitive part of the body.



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## **COSMETIC CLEANSER**

### **CROSS REFERENCE TO RELATED APPLICATIONS**

This document is an International Patent Application which is related to, and  
5 claims the priority through earlier filed U.S. Provisional Application Serial No.  
61,009,492, filed December 27, 2007, all the subject matter of which is herein  
incorporated by this reference thereto in its entirety for all purposes.

### **TECHNICAL FIELD**

10 The present invention relates to cosmetic compositions, and particularly to a  
cleanser composition ideal for sensitive skin.

### **BACKGROUND ART**

A growing area of interest in the improvement of skin care is the formulation  
15 of more gentle skin care products, which are particularly suitable for the treatment of  
sensitive skin, especially on the face. However, as skin care needs vary from person to  
person, no single product suits every individual. Thus, there is always a need for  
improved products, especially compositions which are gentle and suitable for most  
skin types.

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### **DISCLOSURE OF THE INVENTION**

The present invention provides a cleanser which includes cotton seed extract,  
carthamus tinctorius (safflower) seed oil, allantoin, tocopheryl acetate, and  
polyquaternium-10. The cleanser is gentle and is ideal for use on the face and any  
25 sensitive part of the body.

### **MODE(S) FOR CARRYING-OUT THE INVENTION**

The detailed description set forth below is intended as a description of an  
exemplary embodiment and is not intended to represent the only forms in which the  
30 exemplary embodiment may be constructed and/or utilized. The description sets forth  
the functions and the sequence of steps for constructing and/or operating the  
exemplary embodiment. However, it is to be understood that the same or equivalent  
functions and sequences may be accomplished by different exemplary methods are  
also intended to be encompassed within the spirit and scope of the invention.

As used herein, "safe and effective amount" means a sufficient amount of a compound, composition or other material described by this phrase to significantly induce a positive modification in the condition being treated, but low enough to avoid undue side effects (e.g., significant skin irritation or sensitization), within the scope of sound judgment of the skilled person. The safe and effective amount of the compound, composition or other material may vary with the particular skin being treated, the age and physical condition of the biological subject being treated, the severity of the condition, the duration of treatment, the nature of concurrent therapy, the specific compound, composition, or other material employed, the particular cosmetically acceptable topical carrier utilized, and the factors within the knowledge and expertise of the skilled person.

Cotton seed extract (gossypium harbaceum seed extract) is used as a moisturizing and soothing agent. Cotton seeds are rich in proteins, sugar components and vitamin B. The preferred cotton seed extract used in the present invention is sold under the trade name PHYTESSENCE™ COTTON from Croda, and is a glycolic/aqueous extract of cotton seeds. The composition of the present invention uses Phytessence™ Cotton at a concentration of approximately between 0.01 and 1.0%, and more preferably at approximately 0.10%.

Carthamus tinctorius (safflower) seed oil is used as an emollient and skin conditioning agent. The composition of the present invention preferably includes safflower seed oil at a concentration of approximately between 0.05 and 2%, and more preferably at approximately 0.5%.

Allantoin is used in the formulation of the present invention as an anti-irritant and skin protecting agent. The composition of the present invention preferably includes allantoin at a concentration of approximately between 0.01 and 2%, and more preferably at approximately 0.1%.

Vitamin E acetate is used as an antioxidant. The formulation of the present invention preferably includes Vitamin E at a concentration of approximately between 0.001 and 2%, and more preferably at approximately 0.05%.

The formulation of the present invention includes polyquaternium-10 as a conditioner. The formulation of the present invention preferably includes

polyquaternium-10 at a concentration of approximately between 0.01 and 5%, and more preferably at approximately 0.1%.

The following is an example for the preparation of a cleanser composition, in accordance with a preferred embodiment of the present invention.

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Seq ID	Trade Name	INCI Name	% Wt	%Active (Breakdown)	Function	Mfg
1-01	Deionized Water	Water (Aqua)	31.05%	100.00%	Diluent	
1-02	Carbopol	Carbomer & Water (Aqua)	35.00%	Carbomer 0.7% Water 34.30%	Thickener	Noveon
1-03	Glycerin	Glycerin	5.00%	100.00%	Humectant Moisturizer	
1-04	Botanistat	Phenoxyethanol and Capryl Glycol and Ethylhexylglycerin and Hexylene Glycol	1.00%	Phenoxyethanol 50%, Capryl Glycol 20-30% Ethylhexylglycerin 10-20%, Hexylene Glycol 10-20%	Preservative	Botanigenics
1-05	Butylene Glycol	Butylene Glycol	5.00%	100.00%	Solvent	Ruger Chemical Co.
1-06	Dissolvine Na2S	Disodium EDTA	0.10%	100.00%	Chelating Agent	Akzo Nobel
1-08	Allantoin	Allantoin	0.10%	100.00%	Anti-irritant, Skin Protect	Tri-K
2-01	Lipovol SAF	Carthamus Tinctorius (Safflower Seed Oil)	0.50%	100.00%	Emollient, Skin Conditionin g	Lipo Chemical
2-02	Vitamin E Acetate	Tocopheryl Acetate	0.05%	100.00%	Antioxidant	BASF
2-03	Lipocol L-4	Laureth-4	1.00%	100.00%	Emulsifier	Lipo Chemical
2-04	Glycerox 767	PEG-6 Caprylic/ Capric Glycerides	3.00%	100.00%	Emollient, Moisturizer, Emulsifier	Croda
2-05	Lipocol C	Cetyl Alcohol	2.00%	100.00%	Emollient, Emulsifier, Opacifier	Lipo Chemical
3-01	Sodium Hydroxide 18%	Sodium Hydroxide And Water (Aqua)	0.70%	Sodium Hydroxide 18%, Water 82%	pH Adjuster	
4-01	Plantacare 816	Coco-Glucoside and Water (Aqua)	10.00%	Coco-Glucoside 51-53%, Water 47-49%	Non-ionic Surfactant	Cognis
5-01	Green Tea Essential Oil Blend 6500046	Fragrance (REQ #23925)	0.40%	100.00%	Fragrance	Bell Flavors & Fragrances
6-01	UCARE Polymer	Polyquaternium-10 and Water (Aqua)	5.00%	Polyquaternium-10 ,	Conditioner	Amerchol

	JR-125 (2%)			98% Water		
7-01	Phytessen ce Cotton	Butylene Glycol and Water and Gossypluym Herbaceum (Cotton) Seed Extract	0.10%	Butylene Glycol 60-64%, Water 26-29%, Gossyplum Phenova 0.60% (Phenoxyethanol 0.4-45%, Methyl- Paraben 0.09- 0.10%, Ethylparaben 0.2-0.0.25%, Butyl- Paraben 0.2-0.25%, Propylparaben 0.01-0.016%, Isobutylparaben 0.01-0.016%, Sodium Benzoate 0.5%, Sorbic Acid 0.1%	Soothing, Moisturizer	Croda

The formulation is prepared according to the following procedure:

In the main kettle, combine ingredients #1-10 through 1-08 with medium speed propeller mixing. Mix until uniform. Heat Sequence #1 to approximately 80°C. Combine ingredients #2-01 through 2-06 and heat to 80°C. Mix until clear and uniform. Add Sequence #2 to Sequence #1 with medium speed propeller mixing. Add Ingredient 30-1 to batch with medium speed propeller mixing. Increase mixing speed as batch begins to thicken. Add Ingredient 4-01 to batch and mix until uniform, careful not to incorporate air in the batch. Begin cooling. At 42°C, add Ingredient 5-01 to batch and mix until uniform. At 35-40°C, add Ingredient 06-01 to batch and mix until uniform. Continue cooling. Cool to 25-30°C.

In closing, it is to be understood that the exemplary embodiment described herein are illustrative of the principles of the present invention. Other modifications that may be employed are within the scope of the invention. Thus, by way of example, but not of limitation, alternative configurations may be utilized in accordance with the teachings herein. Accordingly, the description is illustrative and not meant to be a limitation thereof.

**CLAIMS**

## WHAT IS CLAIMED IS:

- 2           1. A cleanser composition comprising:  
carbomer;  
4           glycerin;  
phenoxyethanol;  
6           capryl glycol;  
ethylhexylglycerin;  
8           hexylene glycol;  
butylene glycol;  
10          disodium EDTA;  
allantoin;  
12          safflower seed oil;  
tocopheryl acetate;  
14          laureth-4;  
PEG-6 caprylic/ capric glycerides;  
16          cetyl alcohol;  
sodium hydroxide;  
18          coco-glucoside;  
Phytessence™ cotton;  
20          fragrance comprising green tea extract;  
polyquaternium-10; and  
22          water.
2. The composition of claim 1, comprising:  
2           approximately 0.7% carbomer;  
approximately 5.00% glycerin;  
4           approximately 0.5% phenoxyethanol;  
approximately 0.3% capryl glycol;  
6           approximately 0.1%-0.2% ethylhexylglycerin;  
approximately 0.1%-0.2% hexylene glycol;  
8           approximately 5.00% butylene glycol;

approximately 0.10% disodium EDTA;  
10 approximately 0.10% allantoin;  
approximately 0.50% safflower seed oil;  
12 approximately 0.05% tocopheryl acetate;  
approximately 1.00% laureth-4;  
14 approximately 3.00% PEG-6 caprylic/capric glycerides;  
approximately 2.00% cetyl alcohol;  
16 approximately 0.126% sodium hydroxide;  
approximately 5.1-5.3% coco-glucoside;  
18 approximately 0.10% Phytessence™ cotton;  
fragrance comprising green tea extract;  
20 polyquaternium-10; and  
water.

3. A cleanser composition consisting essentially of:  
2 extract of cotton seed, optionally including an extract agent;  
carthamus tinctorius seed oil;  
4 allantoin;  
tocopheryl acetate;  
6 polyquaternium-10;  
at least one thickening agent;  
8 at least one additional moisturizing agent;  
at least one preservative;  
10 at least one solvent;  
at least one chelating agent;  
12 at least one emulsifying agent;  
at least one emollient;  
14 at least one opacifier;  
at least one non-ionic surfactant; and  
16 fragrance.

4. The composition of claim 3, wherein said extract of cotton seed comprises  
2 Phytessence™ cotton, said composition comprising:  
approximately between 0.01 and 1.0% Phytessence™ cotton,

- 4 approximately between 0.05 and 2% of safflower seed oil,  
approximately between 0.01 and 2% allantoin,  
6 approximately between 0.001 and 2% of vitamin E acetate, and  
approximately between 0.01 and 5% polyquaternium-10.

5. The composition of claim 3, said thickening agent comprising Carbomer.

6. The composition of claim 3, said additional moisturizing agent selected  
2 from the group comprising Glycerin, PEG-6 Caprylic/Capric Glycerides, and  
combinations thereof.

7. The composition of claim 3, said preservative selected from the group  
2 comprising Phenoxyethanol, Capryl Glycol, Ethylhexylglycerin, Hexylene Glycol,  
and combinations thereof.

8. The composition of claim 3, said solvent comprising Butylene Glycol.

9. The composition of claim 3, said chelating agent comprising Disodium  
2 EDTA.

10. The composition of claim 3, said emulsifying agent selected from the  
2 group comprising Laureth-4, PEG-6 Caprylic/Capric Glycerides, Cetyl Alcohol, and  
combinations thereof.

11. The composition of claim 3, said emollient comprising PEG-6  
2 Caprylic/Capric Glycerides, Cetyl Alcohol, and combinations thereof.

12. The composition of claim 3, said opacifier comprising Cetyl Alcohol.

13. The composition of claim 3, said non-ionic surfactant comprising Coco-  
2 Glucoside.

14. The composition of claim 3, said fragrance comprising green tea extract.



15. A cleanser composition comprising:
- 2       between 30% and 40% Carbopol™;
- between 2% and 10% glycerin;
- 4       between 0.1% and 5% Botanistat™;
- between 1% and 10% butylene glycol;
- 6       between 0.01% and 1.0% disodium EDTA;
- between 0.01% and 1.0% allantoin;
- 8       between 0.01% and 3.0% safflower seed oil;
- between 0.005% and 0.5V%V Vitamin E Acetate;
- 10      between 0.1% and 5.0% laureth-4;
- between 0.5% and 6.0% PEG-6 caprylic/capric glycerides;
- 12      between 0.1% and 5.0% cetyl alcohol;
- between 5% and 15% Plantacare™;
- 14      sodium hydroxide;
- green tea essential oil;
- 16      polyquaternium-10;
- between 0.01% and 2.0% Phytessence™ cotton; and
- 18      water.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 08/02917

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61K 8/66; A61K 38/48; A61Q 19/00 (2008.04)

USPC - 424/401

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(8): A61K 8/66; A61K 38/48; A61Q 19/00 (2008.04)

USPC: 424/401

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)  
 WEST (PGPB,USPT,EPAB,JPAB): cosmetic, cleanser, phytestence, gossypium, herbaceum, safflower, allantoin, tocopheryl, acetate, polyquaternium, cotton, extract, phytestence, capryl glycol, ethylhexylglycerin, coco-glucoside; esp@cenet: guthy;Google Scholar: cosmetic, cotton, gossypium, herbaceum; Google Web: phytestence, cotton

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2007/0275021 A1 (LEE et al.) 29 November 2007 (29.11.2007), abstract, para [0037], [0081], [0082], [0091], [0114], [0118], [0128], [0147], [0176], [0177], [0178], [0184], [0186], [0214], [0223], [0257], [0291], [0397]; claim 138	1-15
Y	Goliath, "New Skin Care Ingredients," Household & Personal Products, 01 May 2003 (01.05.2003), page 1, 5 [online], [retrieved on 2008-05-25] Retrieved from the database of Goliath: Business Knowledge on Demand using Internet: <URL: http://goliath.ecnext.com/coms2/gi_0199-2794400/New-skin-care-ingredients.html> ,	1-15
Y	US 6,498,197 B1 (BIALEK et al.) 24 December 2002 (24.12.2002), col 3, ln 37-38; col 4, ln 7; col 4, ln 23; col 5, ln 30	1, 2, 13
Y	US 2006/0198800 A1 (DILALLO et al.) 07 September 2006 (07.09.2006), abstract; para [0057], [0067], [0073], [0091], [0093], [0097]	1, 2, 4, 14, 15
Y	US 2005/0025737 A1 (SEBAGH) 03 February 2006 (03.02.2006), para [0103]	15
Y	US 2003/0033678 A1 (SCHULZE ZUR WIESCHE et al.) 20 February 2003 (20.02.2003), para [0231]	15

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"&" document member of the same patent family
"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	

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