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Lerner

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[54] **ASCORBIC ACID AND PROANTHOCYANIDINE COMPOSITION FOR TOPICAL APPLICATION TO HUMAN SKIN**

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[58] **Field of Search** 424/59, 60, 195.1, 424/196.1; 514/54, 56, 453, 474

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,424,232	1/1984	Parkinson	424/319
4,588,590	5/1986	Bernstein	424/195.1
4,668,516	5/1987	Duraffourd et al.	424/195.1
4,707,354	11/1987	Garlen et al.	424/59
4,822,816	4/1989	Markham	514/474
4,863,956	9/1989	Gabetta et al.	514/453
4,888,354	12/1989	Chang et al.	514/343
4,925,870	5/1990	Gabetta et al.	514/453
4,925,871	5/1990	Gabetta et al.	514/453
4,938,960	7/1990	Ismail	514/548
4,938,969	7/1990	Schinitsky et al.	514/847
4,963,527	10/1990	Bombardelli et al.	514/25
4,983,382	1/1991	Wilmott et al.	514/474
5,021,452	6/1991	Labbé et al.	514/474
5,032,610	7/1991	Borretzen et al.	514/467
5,122,536	6/1992	Perricone	514/474
5,135,948	8/1992	Borretzen et al.	514/467
5,140,043	8/1992	Darr et al.	514/474
5,198,465	3/1993	Dioguardi	514/474
5,298,237	3/1994	Fine	514/944
5,308,621	5/1994	Taylor et al.	424/401
5,360,824	11/1994	Baker	514/474
5,371,107	12/1994	Hotzel et al.	514/474
5,409,693	4/1995	Perricone	514/474

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[57] **ABSTRACT**

A method and composition for topically administering ascorbic acid and proanthocyanidine for application to human skin care. The substance is composed of 10% to 25% ascorbic acid and at least 0.5% to 5% proanthocyanidine in combination with a high ratio water surfactant. Non-irritating thickeners, preservatives and carriers synergize to allow penetration of a serum composition to access the entire dermal membrane. The composition possesses sunscreen properties and superior collagen repair means.

18 Claims, No Drawings