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Oblong et al.

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[54] **METHODS OF REGULATING SKIN APPEARANCE WITH VITAMIN B_3 COMPOUND**

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[*] Notice: This patent is subject to a terminal disclaimer.

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Related U.S. Application Data

[63] Continuation-in-part of application No. 08/554,067, Nov. 6, 1995, Pat. No. 5,833,998

[60] Provisional application No. 60/016,043, Apr. 23, 1996, provisional application No. 60/025,242, Sep. 16, 1996, and provisional application No. 60/028,902, Oct. 21, 1996.

[51] **Int. Cl.**[6] **A61K 7/48**

[52] **U.S. Cl.** **424/401**; 514/844; 514/845; 514/846; 514/938

[58] **Field of Search** 424/401; 514/844, 514/845, 846, 938

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,938,960	7/1990	Ismail	424/195.1
5,254,331	10/1993	Mauser	424/59
5,520,919	5/1996	Lerner	424/401
5,545,399	8/1996	Lee et al.	424/59

FOREIGN PATENT DOCUMENTS

0 512814A1	11/1992	European Pat. Off.	A61K 7/48
2242553	3/1974	Germany .	
63-060910	3/1988	Japan	A61K 7/00
8-073338	3/1996	Japan	A61K 7/48
WO 91/14431	10/1991	WIPO .	
WO 94/09756	5/1994	WIPO	A61K 7/48

OTHER PUBLICATIONS

Database WPI, Week 9011, Derwent Publications Ltd., London, GB; AN 90–079175, Feb. 1, 1990.

Tay et al., "Stimulation of Collagen Type I and Type III mRNA Synthesis in Human Skin Fibroblasts by Nicotinamide", *Clinical Research*, vol. 39, No. 1, 1991.

Commerical product information: Chanel Complexe Intensif Night Lift Cream.

Commerical product information: Chanel Creme Parfaite Night Lift Plus Multi–Hydroxy.

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[57] **ABSTRACT**

The present invention relates to topical compositions comprising a vitamin B_3 compound which are useful for regulating skin condition, especially for regulating the signs of skin aging.

5 Claims, No Drawings