



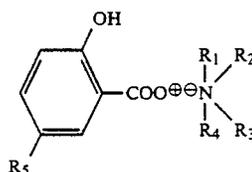
US005137923A

United States Patent [19][11] **Patent Number:** 5,137,923

Philippe et al.

[45] **Date of Patent:** Aug. 11, 1992[54] **LIPOPHILIC QUATERNARY AMMONIUM SALICYLATES, THEIR USE IN COSMETICS AND IN DERMOPHARMACY***Attorney, Agent, or Firm*—Fleit, Jacobson, Cohn, Price, Holman & Stern[75] **Inventors:** Michel Philippe, Antony; Henri Sebag; Michel Hocquaux, both of Paris; Bernard Jacquet; Jean P. Laugier, both of Antony, all of France[57] **ABSTRACT**

Lipophilic quaternary ammonium salicylate, characterized in that it corresponds to the formula:

[73] **Assignee:** L'Oreal, Paris, France[21] **Appl. No.:** 541,771[22] **Filed:** Jun. 21, 1990**Related U.S. Application Data**

[62] Division of Ser. No. 127,494, Dec. 1, 1987, Pat. No. 5,001,156.

[30] **Foreign Application Priority Data**

Dec. 1, 1986 [FR] France 86 16763

[51] **Int. Cl.⁵** A61K 31/44; A61K 31/435; C07D 211/26; C07D 211/70[52] **U.S. Cl.** 514/859; 514/852; 514/887; 514/315; 514/357; 514/358; 514/396; 514/399; 546/246; 546/247; 546/248; 546/329; 546/331; 546/334; 546/335; 546/336; 546/337; 546/339; 546/340; 546/341; 546/342; 546/344; 546/346; 546/347[58] **Field of Search** 546/246, 247, 248, 329, 546/331, 334, 335, 336, 337, 339, 340, 341, 342, 344, 346, 347; 514/315, 357, 358, 396, 399, 859, 852, 887[56] **References Cited****FOREIGN PATENT DOCUMENTS**

0124905 11/1984 European Pat. Off. .

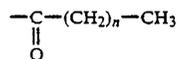
Primary Examiner—Johann Richter

in which:

- (i) R₁, R₂, R₃ and R₄, which may be identical or different, denote an alkyl or alkylcycloalkyl radical, optionally substituted or interrupted;
- (ii) R₃ and/or R₄ denote(s) a group:

in which: $0 \leq n \leq 4$ and p denotes 0 or 1; R₈ denotes H or an alkyl, alkenyl, alkylcycloalkyl or alkylaryl radical;

- (iii) R₄ denotes an alkylphenyl radical;
- (iv), (v) R₁ and R₂ can form a saturated or unsaturated aromatic or non-aromatic heterocycle;
- (vi) R₁, R₂ and R₃ form polycyclic derivatives with the nitrogen atoms; R₅ denotes a group corresponding to the formula:



in which n is an integer varying between 0 and 10.

12 Claims, No Drawings