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| <b>(51) International Patent Classification</b> <sup>6</sup> :<br><br>A61K 7/075                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>(11) International Publication Number:</b> WO 95/02389<br><br><b>(43) International Publication Date:</b> 26 January 1995 (26.01.95) |
| <b>(21) International Application Number:</b> PCT/US94/06877<br><br><b>(22) International Filing Date:</b> 17 June 1994 (17.06.94)<br><br><b>(30) Priority Data:</b><br>08/089,880      12 July 1993 (12.07.93)      US<br><br><b>(71) Applicant:</b> THE PROCTER & GAMBLE COMPANY<br>[US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).<br><br><b>(72) Inventors:</b> COTHRAN, Philip, Earl; 3512 Shadowridge Drive, Loveland, OH 45140 (US). MURRAY, Kevin, Patrick; 2508 Melrose Avenue, Cincinnati, OH 45212 (US). COFFINDAFFER, Timothy, Woodrow; 118 Bridle Lane, Loveland, OH 45140 (US). GAUTHIER, Thomas, Francis; 73 Towne Commons Way, Cincinnati, OH 45215 (US).<br><br><b>(74) Agents:</b> REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45202 (US).                                                                                                                                                                                                                | <b>(81) Designated States:</b> AU, BB, BG, BR, BY, CA, CN, CZ, FI, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LV, MD, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).<br><br><b>Published</b><br><i>With international search report.</i><br><br><b>(88) Date of receipt of the international search report:</b><br>9 March 1995 (09.03.95) |                                                                                                                                         |
| <b>(54) Title:</b> HIGH LATHERING ANTI-DANDRUFF SHAMPOOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                         |
| <b>(57) Abstract</b><br><br>Provided are high lathering, anti-dandruff shampoo compositions with improved deposition of particulate anti-dandruff active, said compositions comprising: (a) from about 5 % to about 29.5 %, by weight, of anionic surfactant selected from the group consisting of alkyl sulfates and alkyl ethoxylated sulfates, acids thereof, and mixtures thereof; (b) from about 0.5 % to about 5 %, by weight, of N-acylamino acid anionic surfactant and salts thereof; (c) from about 0.1 % to about 10 %, by weight, of particulate anti-dandruff agent; (d) from about 0.5 % to about 10 %, by weight, of crystalline suspending agent for said anti-dandruff active; (e) from about 40 % to about 89 %, by weight, of water; wherein the total deterative surfactant concentration in said composition is from about 10 % to about 30 %; the weight ratio of component (b):component (a) is at least about 1:20; and said composition is substantially free of betaine surfactants and alkanol amide foam boosters. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                         |

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## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 94/06877

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 6 A61K7/075

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 6 A61K

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 practical, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages     | Relevant to claim No. |
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| A          | WO,A,92 14440 (PROCTER & GAMBLE) 3<br>September 1992<br>see the whole document<br>---- | 1-10                  |
| A          | EP,A,0 285 389 (PROCTER & GAMBLE) 5<br>October 1988<br>see the whole document<br>----- | 1-10                  |

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

☒ Patent family members are listed in annex.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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