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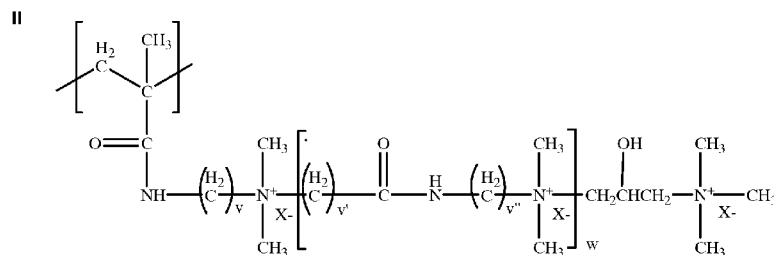
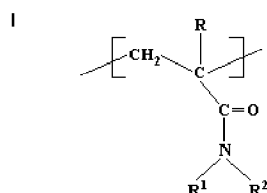
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(54) Title: PERSONAL CARE COMPOSITIONS CONTAINING CATIONIC SYNTHETIC COPOLYMER AND A DETERGENT SURFACTANT



(57) Abstract: A personal care composition comprising: a) a synthetic random copolymer having a net positive charge comprising: i.) a nonionic monomer unit of the following formula: where R is H or C₁₋₄ alkyl; and R¹ and R² are independently selected from the group consisting of H, C₁₋₄ alkyl, CH₂OCH₃, CH₂OCH₂CH(CH₃)₂, and phenyl, or together are C₃₋₆cycloalkyl; and ii.) a cationic monomer unit with 2 or more positive charges of the following formula: where each of v, v', and v'' is independently an integer of from 1 to 6, w is zero or an integer of from 1 to 10, and X⁻ is an anion. and; b) a detergent surfactant; c) an azole; d) salicylic acid and e) an aqueous carrier.



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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) A61K A61Q		
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) EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2007/080538 A2 (PROCTER & GAMBLE [US]; PEFFLY MARJORIE MOSSMAN [US]; BROWN MARK ANTHON) 19 July 2007 (2007-07-19) claims; examples -----	1-22
X	US 2007/207109 A1 (PEFFLY MARJORIE M [US] ET AL) 6 September 2007 (2007-09-06) paragraphs [0146] - [0149]; claims; examples -----	1-22
A	WO 03/039499 A1 (PROCTER & GAMBLE [US]) 15 May 2003 (2003-05-15) examples 3,4 -----	1-22
A	WO 03/101410 A1 (PROCTER & GAMBLE [US]) 11 December 2003 (2003-12-11) examples 6-8 -----	1-22
☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "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) "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 "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 "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 "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. "&" document member of the same patent family		
Date of the actual completion of the international search 25 January 2011		Date of mailing of the international search report 02/02/2011
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer Miller, Bernhard

INTERNATIONAL SEARCH REPORT

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