

12

EUROPEAN PATENT APPLICATION

21 Application number: **87306355.6**

22 Date of filing: **17.07.87**

51 Int. Cl.⁴: **C 11 D 1/75**
C 11 D 1/40, C 11 D 1/58,
C 11 D 17/00, C 11 D 7/08

30 Priority: **17.07.86 AU 6989/86**

43 Date of publication of application:
20.01.88 Bulletin 88/03

84 Designated Contracting States:
AT BE CH DE ES FR GB GR IT LI LU NL SE

88 Date of deferred publication of search report:
21.09.88 Bulletin 88/38

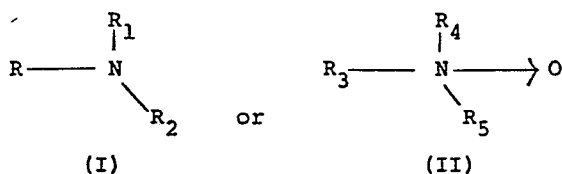
71 Applicant: **R & C PRODUCTS PTY. LIMITED**
845 Pacific Highway
Chatswood New South Wales (AU)

72 Inventor: **Silvester, Raymond Neville**
8 Millar Crescent
Dural New South Wales (AU)

74 Representative: **Allard, Susan Joyce et al**
BOULT, WADE & TENNANT 27 Farnival Street
London EC4A 1PQ (GB)

54 **Amine-acid thickening compositions.**

57 A thickened aqueous composition comprising at least one compound acid or acidic salt, a thickening agent which is at least one of the compounds selected from the group consisting of compounds of the formula:



wherein R, R₁, R₂, R₃, R₄ and R₅ are specified substituent groups, and optionally a strong ionic salt, the thickening agent and the acid or acidic salt being together substantially water soluble, and wherein the thickened aqueous composition has a viscosity of not less than 30 centipoise at 25°C when measured with a Brookfield RVT viscometer at 50 rpm using a No. 1 spindle.



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 87 30 6355

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	US-A-4 597 975 (WOODWARD et al.) * examples * ---	1-11,13 -19	C 11 D 1/75 C 11 D 1/40
X	US-A-4 259 216 (MIYAJIMA et al.) * examples * ---	1-4,7-9 ,11-15, 17-19	C 11 D 1/58 C 11 D 17/00 C 11 D 7/08 C 11 D 3/02
X	US-A-3 943 234 (ROGGENKAMP) * examples; claims * ---	1-11,13 -19	C 11 D 7/22 C 11 D 3/20
X	GB-A-1 240 469 (ATLAS PRESERVATIVE CO.) * example; claims 1, 2, 8 * ---	1-5,7, 10,11, 13-15, 17,19	
X	EP-A-0 130 786 (ECONOMICS LABORATORY) * examples * ---	1-4,7-9 ,11,13- 15,17, 19	
X	EP-A-0 131 527 (LESIEUR-COTELLE) * claims 1, 4, 6, 10; page 7, lines 18-37; page 10, line 4, page 11, line 27 * ---	1-4,7- 10,12- 17,19	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
X	US-A-3 520 820 (HWA) * examples * ---	1-7,11, 13,14, 17,19	C 11 D 1/00 C 11 D 3/00 C 11 D 7/00 C 11 D 17/00
X	US-A-3 925 229 (BOLSING) * examples; column 2, line 60 - column 3, line 17 * ---	1-7,11, 13-15, 17,19	
X	GB-A-2 106 927 (COLGATE-PALMOLIVE CO.) * claims 1, 2, 13; examples 10-18 * --- -/-	1-4,7-9 ,11,13- 15,17, 19	
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 19-05-1988	Examiner LI VOTI
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	



DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)		
X	DE-A-3 047 653 (LION CORP.) * claims 1-4; examples * ---	1-4,7-9 ,12-19			
X	US-A-4 299 739 (ESPOSITO et al.) * claims 1, 9; table 4 * ---	1-5,7-9 ,12-16, 19			
X	FR-A-2 459 830 (INDUSTRIES CHIMIQUES DE VOREPPE) * examples * ---	1-5,7, 11,13- 15,17, 19			
D,X	US-A-4 021 377 (BORCHERT et al.) * examples * ---	1,11,15 ,17,19			
D,X	GB-A-2 071 688 (JEYES LTD) * examples; page 1, lines 44-45 * ---	1-15,17 ,19			
A	FR-A-2 207 984 (RECKITT & COLMAN) * claims 1-5; examples * & GB - A - 1 443 244 (Cat. D) ---	1-7,10- 16,19			
P,X	EP-A-0 199 383 (THE PROCTER & GAMBLE CO.) * examples * ---	1-3,11, 13-15, 19			
P,A	GB-A-2 172 910 (THE PROCTER & GAMBLE CO.) * page 1, line 46 - page 2, line 22 * -----		TECHNICAL FIELDS SEARCHED (Int. Cl.4)		
The present search report has been drawn up for all claims					
Place of search BERLIN		Date of completion of the search 19-05-1988	Examiner LI VOTI		
<table border="0"><tr><td>CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</td><td>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document</td></tr></table>				CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document				