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NL-6800 SB Arnhem(NL)(54) **Biodegradable fabric softeners derived from aspartic acid or glutaminic acid.**

(57) Stable aqueous dispersions are described which display a fabric softening action and contain a biodegradable cationic nitrogen compound. The anion of the compound is the anion of a water-soluble organic Bronstedt acid. The acid is present in an amount more than equivalent to the amount of the nitrogen compound. The cationic nitrogen is obtained from an amine which is prepared from an unsaturated dicarboxylic ester e.g. ditallow maleate and an amine e.g. dimethyl amine.

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EUROPEAN SEARCH REPORT

Application Number

EP 91 20 2966

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.5)
A,D	US-A-4 026 915 (F.L. BILLMAN et al.) * Abstract * ---	1,10,11	D 06 M 13/342 C 07 C 229/24 C 07 C 229/30
A	GB-A-1 048 197 (ASAHI KASEI KOGYO K.K.) * Claim 1 * ---	11	
A	EP-A-0 253 676 (R & C PRODUCTS PTY LTD) * Page 5, lines 28-45; examples 1-4,18-19,39-40; claims 1,11 * ---	1,5,7,8	
A	EP-A-0 203 626 (PROCTER & GAMBLE) * Column 2, line 23 - column 3, line 13; examples III,IV; claims 1,4,5 * ---	1,7	
A	CHEMICAL ABSTRACTS, vol. 108, no. 2, 11th January 1988, page 317, abstract no. 11015h, Columbus, Ohio, US; & JP-A-87 192 314 (KAWAKEN FINE CHEMICALS CO., LTD) 22-08-1987 -----	10	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			C 11 D C 07 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15-04-1992	Examiner SERBETSOGLU A.
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			



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid,
namely claims: .
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions,
namely:

see sheet -B-

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid,
namely claims:
- ☐ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims,
namely claims:



LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1-9,11 : Protonized aminodicarboxylic ester, A^- = rest from a water solubly organic Bronstedt acid.
2. Claim. 10 : Q = alkyl or hydroxyalkyl with 1-6 C atoms and X^- =anion. Different compound than that stated in claim 1.