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**EUROPEAN PATENT APPLICATION**

⑰ Application number: **81201056.9**

⑤① Int. Cl.<sup>3</sup>: **C 07 C 93/04, D 06 M 13/46**

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③① Priority: **25.09.80 US 190550**

⑤① Applicant: **Akzo N.V., Velperweg 76, NL-6824 BM Arnhem (NL)**

④③ Date of publication of application: **07.04.82**  
**Bulletin 82/14**

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⑧④ Designated Contracting States: **BE DE FR GB IT NL SE**

⑧⑧ Date of deferred publication of search report: **09.06.82 Bulletin 82/23**

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⑤④ **Alkoxyliated quaternary ammonium borates.**

⑤⑦ This disclosure relates to a class of quaternary ammonium compounds. More particularly, this disclosure relates to a class of quaternary ammonium borate compounds and their use as fabric softeners. This disclosure further relates to fabric softening compositions containing such quaternary ammonium borates and to methods of softening textiles employing such compounds and compositions.

**EP 0 049 017 A3**



European Patent  
Office

# EUROPEAN SEARCH REPORT

0049017  
Application number

EP 81 20 1056

| DOCUMENTS CONSIDERED TO BE RELEVANT                        |                                                                                                |                   | CLASSIFICATION OF THE APPLICATION (Int. Cl. <sup>3</sup> )                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category                                                   | Citation of document with indication, where appropriate, of relevant passages                  | Relevant to claim |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A, D                                                       | <u>EP - A - 0 013 820 (ICI)</u><br>* Page 2, line 20 - page 3, line 13; page 4, lines 22, 23 * | 1, 3, 5, 9        | C 07 C 93/04<br>D 06 M 13/46                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                            | --                                                                                             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A, D                                                       | <u>US - A - 3 546 115 (N.W. GILL)</u><br>* Claim 1 *                                           | 9, 10             |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                            | --                                                                                             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A                                                          | <u>US - A - 3 169 983 (D.L. HUNTER)</u><br>* Column 1, lines 30-45 *                           | 9                 | TECHNICAL FIELDS SEARCHED (Int.Cl. <sup>3</sup> )<br><br>C 07 C 93/00<br>C 07 F 5/00<br>D 06 M 13/00                                                                                                                                                                                                                                                                                                                           |
|                                                            | ----                                                                                           |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                            |                                                                                                |                   | CATEGORY OF CITED DOCUMENTS                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                            |                                                                                                |                   | X: particularly relevant if taken alone<br>Y: particularly relevant if combined with another document of the same category<br>A: technological background<br>O: non-written disclosure<br>P: intermediate document<br>T: theory or principle underlying the invention<br>E: earlier patent document, but published on, or after the filing date<br>D: document cited in the application<br>L: document cited for other reasons |
|                                                            |                                                                                                |                   | &: member of the same patent family,<br>corresponding document                                                                                                                                                                                                                                                                                                                                                                 |
| The present search report has been drawn up for all claims |                                                                                                |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Place of search                                            | Date of completion of the search                                                               | Examiner          |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| The Hague                                                  | 23-03-1982                                                                                     | WRIGHT            |                                                                                                                                                                                                                                                                                                                                                                                                                                |