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- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
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(54) **Title:** SOLID CONCENTRATED FABRIC SOFTENER COMPOSITION

(57) **Abstract:** A solid fabric softening composition is disclosed which includes a quaternary ammonium fabric softening compound which is stabilized to form a solid with a mixture of a water soluble organic salt and a medium to long chain carboxylic acid. This stabilizing combination has been shown to effectively form a solid quaternary ammonium based fabric softening composition with up to as much as 70% by weight of quaternary ammonium compound. The formulations are stable at typical storage temperatures of up to 110°F and provide fabric softening similar to and even superior to other traditional liquid formulations.



A. CLASSIFICATION OF SUBJECT MATTER***D06M 15/267(2006.01)i, D06M 15/263(2006.01)i, D06M 11/77(2006.01)i***

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)

D06M 15/267; C11D 7/32; D06L 1/00; C11D 11/00; A01N 33/12; D06M 13/463; D06M 13/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & keywords: fabric, softener, quaternary ammonium, carboxylic acid, organic salt, non-weeping

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2004-0167056 A1 (LENTSCH, S. E. et al.) 26 August 2004 See paragraphs [0008],[0059], and claims 3,43,62.	17 1-16, 18-20
A	US 4110498 A (BENJAMIN, L. and WALSH, M. A.) 29 August 1978 See abstract and claim 1.	1-20
A	US 4196104 A (OGUAGHA, P. C.) 1 April 1980 See columns 7,8, and claim 1.	1-20
A	JP 2001-192967 A (KAO CORP.) 17 July 2001 See abstract and claim 1.	1-20



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"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

26 FEBRUARY 2013 (26.02.2013)

Date of mailing of the international search report

28 FEBRUARY 2013 (28.02.2013)

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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