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(71) Applicant: **ENGELHARD CORPORATION** [US/US];
101 Wood Avenue, P.O. Box 770, Iselin, NJ 08830-0770 (US).

(72) Inventors: **KUZNICKI, Steven, M.**; 602 Route 523,
Whitehouse Station, NJ 08889 (US). **BELL, Valerie, A.**;
1845 Woodland Avenue, Edison, NJ 08820 (US). **LANGNER, Tadeusz, W.**;
468 Baldwin Avenue, Maplewood, NJ 07040 (US). **CURRAN, Jacqueline, S.**;
30 Hamilton Avenue, Cranford, NJ 07016 (US).

(74) Agents: **MILLER, Stephen, I.** et al.; Engelhard Corporation,
101 Wood Avenue, P.O. Box 770, Iselin, NJ 08830-0770 (US).

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(54) Title: POROUS STATIC WATER SOFTENER CONTAINING HYBRID ZEOLITE-SILICATE COMPOSITION

(57) Abstract: A novel water softening material comprising a porous matrix such as carbon or paper having incorporated in the pores thereof an ion-exchanger composition comprising either a hybrid zeolite-silicate powder in which the zeolite contains occluded silicate which is not part of the zeolite framework or the ion-exchanger includes macroscopic aggregates of submicron aluminosilicate zeolite crystals. The submicron zeolite crystals of the aggregate can include occluded silicate. The water softening materials are particularly useful in static water softening including, for example, treating household water supplies.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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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)

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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)

WPI Data, EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FR 2 296 595 A (COLGATE PALMOLIVE CO) 30 July 1976 (1976-07-30) page 1, line 31 - line 40 page 2, line 35 - line 40 page 10, line 25 - line 29 ---	1,2, 4-11, 13-17, 19-23, 31, 33-38, 47,48
Y	US 5 948 383 A (CURRAN JACQUELINE S ET AL) 7 September 1999 (1999-09-07) cited in the application column 2, line 25 - line 26; claims 1-3,5 column 19, line 48 - line 55 --- -/--	1,2, 4-11, 13-15, 31,33-38

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Hilgenga, K

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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