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(54) Title: SUPERABSORBENT POLYMER PARTICLES WITH IMPROVED SURFACE CROSS-LINKING AND IMPROVED HYDROPHILICITY AND METHOD OF MAKING THEM USING VACUUM UV RADIATION

(57) Abstract: The present invention relates to superabsorbent polymer particles with improved surface cross-linking and improved hydrophilicity and their use in absorbent articles. Superabsorbent polymer particles of the invention consist of cross-linked poly(meth)acrylic acid and salts thereof. The polymer chains comprised by the superab-sorbent polymer particles are cross-linked to each other through direct covalent bonds and comprise alcoholic hydroxyl groups. Moreover, the invention relates to a method for surface cross-linking superabsorbent polymer particles using vacuum UV irradiation.

INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. C08J3/28 C08J3/22 C08L33/02

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)
C08J A61L

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)
EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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