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(54) Title: LATEX WITH ISOCYANATE CROSSLINKER AS BINDER FOR FIBROUS SUBSTRATES

(57) Abstract: A polymeric dispersion in aqueous phase for use as a polymeric binder for paper and other nonwoven articles is described utilizing a polyisocyanate in combination with said polymeric binder to increase the ratio wet tensile/dry tensile strength. The polyisocyanate seems to be functioning by increasing the fiber to binder interaction rather than by simply increasing the strength/crosslink density of the binder. The polyisocyanate can be blocked isocyanate(s) or water dispersible isocyanate(s). The binder may or may not have isocyanate reactive species along the backbone.



WO 2007/120341 A3

INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

INV. C08G18/70 C08G18/80 D04H1/64 D06M15/263

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)

C08G D04H D06M

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 159 011 A (RAU MARIA G [DE] ET AL) 27 October 1992 (1992-10-27) column 1, lines 5-33 column 9, lines 53-60 column 10, lines 21-31; claims 1-9	1-13
X	US 3 269 860 A (RICHARDSON SPENCER M ET AL) 30 August 1966 (1966-08-30) column 1, line 63 - column 2, line 64; examples I-X claims 1-8	1-13
X	GB 1 162 409 A (BAYER AG [DE]) 27 August 1969 (1969-08-27) claims 1-18	1-13
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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 030 507 A (MUDGE PAUL [US] ET AL) 9 July 1991 (1991-07-09) cited in the application the whole document -----	1-13

INTERNATIONAL SEARCH REPORT

Information on patent family members

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