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BURY, Rafael [BE/US]; 1226 Sarasota Drive, Wheeling, Illinois 60090 (US).

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(74) Agents: **HASAN, Salim, A.** et al.; LEYDIG, VOIT & MAYER, LTD., Two Prudential Plaza, Suite 4900, 180 North Stetson Avenue, Chicago, Illinois 60601-6731 (US).

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(71) Applicant (*for all designated States except US*): **UNITED STATES GYPSUM COMPANY** [US/US]; 550 West Adams Street, Chicago, Illinois 60661-3676 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **ENGBRECHT, Dick, C.** [US/US]; 738 S. Patton Circle, Arlington Heights, Illinois 60005 (US). **LIU, Qingxia** [CA/US]; 108 N. Fiore Parkway, Vernon Hills, Illinois 60061 (US). **SHAKE, Michael, P.** [US/US]; 3404 Ivy Lane, Johnsburg, Illinois 60050 (US). **WANG, Xuming** [CN/US]; 255 Hickory Street, #2, Mundelein, Illinois 60060 (US). **MILLER, David, Paul** [US/US]; 400 Regent Court, Lindenhurst, Illinois 60046 (US). **BOLIND, Michael, L.** [US/US]; 25812 W. Larkin Lane, Ingleside, Illinois 60041 (US). **REED, Paul** [US/US]; 2423 Girard Turn, Kankakee, Illinois 60901 (US). **ROELFS, Donald, L.** [US/US]; 14569 Maranatha Lane, West Burlington, Iowa 52655 (US).

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13 November 2008

(54) Title: WATER RESISTANT CEMENTITIOUS ARTICLE AND METHOD FOR PREPARING SAME

(57) Abstract: A fibrous mat-faced cementitious article comprising (a) a cementitious core, and (b) a first fibrous mat comprising polymer or mineral fibers and a hydrophobic finish on at least one surface thereof, wherein the hydrophobic finish is in contact with the cementitious core, and a method of preparing a fibrous mat-faced cementitious article, as well as a method of preparing a water-resistant cementitious article comprising (a) preparing an aqueous siloxane dispersion, wherein the dispersion comprises about 4 wt.% to about 8 wt.% siloxane, (b) combining the siloxane dispersion with a cementitious mixture to provide a cementitious slurry, (c) depositing the cementitious slurry onto a substrate, and (d) allowing the cementitious slurry to harden, thereby providing a cementitious article.

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2008/053304

A. CLASSIFICATION OF SUBJECT MATTER

INV. B32B13/14 E04C2/04 C04B24/42 B28B19/00

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)

B32B

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 2005/202742 A1 (SMITH RUSSELL [US] ET AL) 15 September 2005 (2005-09-15) claims paragraphs [0071], [0076], [0079] figure 3 -----	1-25



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *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

20 June 2008

Date of mailing of the international search report

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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

Rosenberger, Jürgen

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/053304

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1 - 25

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-25

A fibrous mat-faced cementitious article and a method for preparing it. ---

2. claims: 26-43

A method for preparing a water-resistant cementitious article. ---

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2008/053304

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005202742 A1	15-09-2005	CA 2559788 A1 WO 2005090701 A1	29-09-2005 29-09-2005