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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

[Continued on next page]

(54) Title: METHOD OF REINFORCING IRREGULAR STRUCTURES

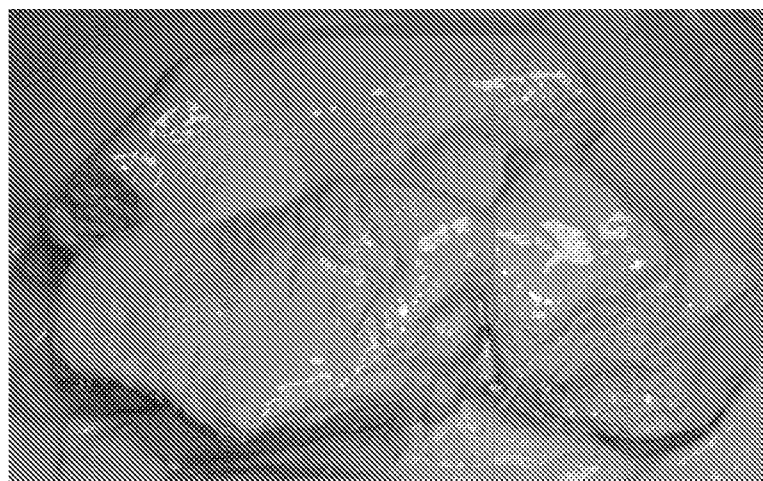


Fig. 1B

(57) Abstract: The present disclosure provides a method for reinforcing irregular rock or irregular concrete surfaces such as rock structures in mines as well as other rock and concrete structures. The method includes applying a curable foam composition to at least a portion of a surface, at least partially curing the curable foam composition to form a foam layer adhered to the surface, applying a curable reinforcing composition onto at least a portion of the foam layer, and at least partially curing the curable reinforcing composition to form a reinforcing layer, wherein at least a portion of the reinforcing layer is adhered to the foam layer.



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- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/035870**A. CLASSIFICATION OF SUBJECT MATTER*****C04B 41/45(2006.01)i, C04B 38/00(2006.01)i, C04B 40/00(2006.01)i, C04B 24/24(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)

C04B 41/45; B29C 67/20; C04B 26/16; C04B 41/71; B44C 5/06; C04B 41/63; B44F 9/04

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 04847026A A (JARBOE; ENOS D. et al.) 11 July 1989 See claims 1-13	1-18
A	JP 11-235899 A (TOKIHISA SHOJI KK) 31 August 1999 See claims 1-5	1-18
A	JP 08-012402 A (SK KAKEN CO LTD) 16 January 1996 See claims 1-4	1-18
A	KR 10-2008-0113435 A (TONCELLI LUCA) 30 December 2008 See claims 1-9	1-18

☐ 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

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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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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

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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