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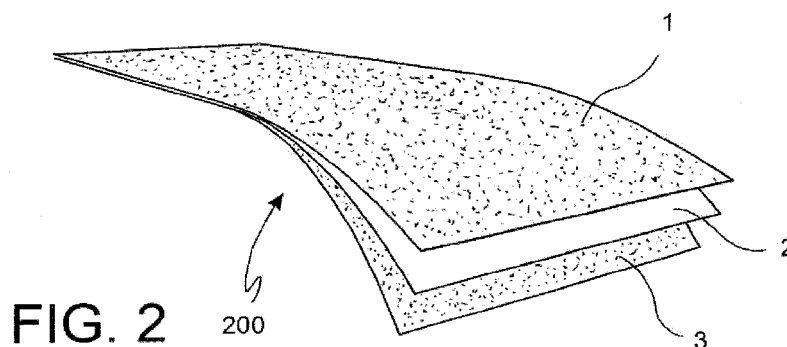
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(54) Title: SHEET FOR WATERPROOFING WALLS, GARRETS OF BUILDINGS AND INSULATING PANELS SUITABLE FOR LIMITING THE PROLIFERATION OF MICROORGANISMS AND INSECTS



(57) Abstract: The invention refers to a sheet (100; 200; 300; 600) for waterproofing walls and garrets of buildings, comprising: • - a framework layer (1) made of fibrous material; • - a waterproof membrane (2). The framework layer and the membrane are connected together along their entire surface. The sheet also comprises an additive having antibacterial, anti-mould and anti-insect properties, which is present in at least one from the framework layer (1) and the membrane (2). The sheet is characterised in that said additive is a mixture comprising: quaternary ammonium, isothiazolone derivatives and permethrin.



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A. CLASSIFICATION OF SUBJECT MATTER		
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ADD.		
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) E04D E04B 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 practicable, 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 2003/205007 A1 (WILLIAMSON ROBERT R [US] ET AL) 6 November 2003 (2003-11-06) paragraphs [0002], [0006] - [0921], [0039] - [0041]; figures 8,9 -----	1-19
X	JP 9 048954 A (NITTO DENKO CORP) 18 February 1997 (1997-02-18) abstract -----	1-9, 14-19
X	US 4 617 227 A (WEAVER EBON P [US]) 14 October 1986 (1986-10-14) column 1, lines 5-8 column 6, line 20 - column 7, line 63 -----	1-9, 14-19
X	US 2004/185226 A1 (FAY RALPH MICHAEL [US] ET AL) 23 September 2004 (2004-09-23) paragraphs [0001], [0004], [0006], [0008], [0030], [0042], [0046] - [0049] ----- -/--	1-9, 14-19
<input checked="" type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input checked="" type="checkbox"/> 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.
X	US 2002/192259 A1 (VORIS PETER VAN [US] ET AL) 19 December 2002 (2002-12-19) paragraphs [0005], [0014], [0015], [0063] - [0070], [0101] - [0104], [0113], [0117]; figure 20 -----	1-19

INTERNATIONAL SEARCH REPORT

Information on patent family members

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PCT/IB2012/052080

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003205007 A1	06-11-2003	US 2002100246 A1 US 2003205007 A1 US 2005181056 A1	01-08-2002 06-11-2003 18-08-2005

JP 9048954 A	18-02-1997	NONE	

US 4617227 A	14-10-1986	BR 8601042 A CA 1277055 C DE 3666449 D1 EP 0201167 A1 IN 166515 A1 JP 61258864 A US 4617227 A	25-11-1986 27-11-1990 23-11-1989 12-11-1986 19-05-1990 17-11-1986 14-10-1986

US 2004185226 A1	23-09-2004	NONE	

US 2002192259 A1	19-12-2002	NONE	
