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ning of each regular issue of the PCT Gazette.

(54) Title: METHODS OF BLOCKING STAINS ON A SUBSTRATE TO BE PAINTED, AND COMPOSITES SUITABLE FOR
USE IN SUCH METHODS

Optional adhesive layer

Dry film layer

Release layer

(57) Abstract: Methods of blocking stains on a substrate to be painted are disclosed, as are stain-blocking composites that are useful according to the disclosed methods. In a broad aspect, the methods include the steps of contacting a stained portion of the substrate with a dry film layer; applying pressure to the dry film layer to cause the dry film layer to adhere to the stained portion of the substrate and to at least a portion of the substrate adjacent the stained portion of the substrate; and subsequently coating the dry film layer and the adjacent substrate with one or more additional liquid coating layers. Stain blocking composites useful according to the methods described include a release layer, to which the pressure is applied; a dry film layer, that can be clear or pigmented, that serves to block the stain; and an optional adhesive layer, intended to assist in adhering the dry film layer to the stained portion of the substrate and to at least that portion of the substrate adjacent the stained portion of the substrate.

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INTERNATIONAL SEARCH REPORT

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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)
 IPC 7 E04F B32B B05D C09D B44C

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, PAJ, 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 3 640 791 A (RICHARD ROSENHEIM) 8 February 1972 (1972-02-08) column 1, line 60 - column 2, line 49; figures 1-7	1-73
X	FR 2 206 365 A (BEIERSDORF AG) 7 June 1974 (1974-06-07) page 1, line 28 - page 2, line 10; examples 1-4	23-69, 72,73
X	US 3 432 376 A (KENNETH JAMES REED ET AL) 11 March 1969 (1969-03-11) column 1, line 44 - column 1, line 60; figure 1	23-69, 72,73
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	PATENT ABSTRACTS OF JAPAN vol. 014, no. 192 (C-0711), 19 April 1990 (1990-04-19) & JP 02 035977 A (SENSHIYAKI SHOKAI:KK), 6 February 1990 (1990-02-06) abstract -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
US 3640791	A	08-02-1972	NONE	
FR 2206365	A	07-06-1974	AT 327567 B	10-02-1976
			AT 931973 A	15-04-1975
			BE 807147 A1	01-03-1974
			CH 579626 A5	15-09-1976
			ES 420222 A1	16-03-1976
			FR 2206365 A1	07-06-1974
			IT 999197 B	20-02-1976
			NL 7314783 A	13-05-1974
US 3432376	A	11-03-1969	GB 1038785 A	10-08-1966
			BE 644381 A	15-06-1964
			FR 1387518 A	19-05-1965
JP 02035977	A	06-02-1990	JP 1833674 C	29-03-1994