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**WO 2007/109150 A3**

(54) Title: PROCESS OF BLEACHING FABRIC

(57) Abstract: The present invention relates to a process of treating fabrics with bleaching compositions. Said compositions are suitable for use in laundry applications; they are particularly appropriate to be used as a laundry pretreater and to a process of pre-treating fabrics. The compositions herein are suitable for use on various fabrics to provide stain removal and bleaching performance.

**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/US2007/006671

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. C11D17/04 C11D3/395

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)  
C11D D06L

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	EP 0 423 817 A (BRISTOL-MYERS SQUIBB COMPANY) 24 April 1991 (1991-04-24)	1-8, 13, 14, 17, 23, 24
A	claims; example 2	25, 26
A	WO 2005/035708 A (JOHNSON DIVERSEY, INC; CRAWFORD, CHARLES, ALLEN; SIMPSON, WILLIAM, EDWA) 21 April 2005 (2005-04-21) cited in the application claims	1-21
A	GB 2 326 340 A (* RECKITT & COLMAN PRODUCTS LIMITED) 23 December 1998 (1998-12-23) page 3, line 9 - line 26; claim 1; figure	1-21

Further documents are listed in the continuation of Box C.

See patent family annex.

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# 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
EP 0423817	A	24-04-1991	AU 629701 B2	08-10-1992
			AU 6470690 A	26-04-1991
			CA 2027713 A1	21-04-1991
			JP 3164403 A	16-07-1991
			NZ 235624 A	23-12-1993
			US 5126070 A	30-06-1992
-----				
WO 2005035708	A	21-04-2005	NONE	
-----				
GB 2326340	A	23-12-1998	AU 8026098 A	04-01-1999
			WO 9857544 A1	23-12-1998
			ZA 9805228 A	04-03-1999
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