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(54) Title: A PROCESS FOR PRODUCING COATED UREA-FORMALDEHYDE POLYMERS

(57) Abstract: The present invention relates to novel urea-formaldehyde polymers coated with an active ingredient, a method of making the same, and their use.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER INV. C08J7/06 A01N25/10 C08G12/12		
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) A01N C08J C08G C05C B29B		
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, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 115 100 A (SCHURTER ET AL) 19 September 1978 (1978-09-19) claims 1,11 column 14, line 56 - column 15, line 7 column 15, line 64 - column 16, line 2 -----	1,20-22
X	US 2005/187123 A1 (LI SHULONG ET AL) 25 August 2005 (2005-08-25) claims 24,27,28 column 2, paragraph 19 - paragraph 25 column 3, paragraph 34 - paragraph 38 column 4; example 3 example 3 ----- -/--	21
☒ Further documents are listed in the continuation of Box C. ☒ 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.
A	WO 01/79349 A (PERSTORP CHEMITEC S.P.A; MOCCHIA, LUIGI; ROTA, ANTONELLO; RUSMINI, FRA) 25 October 2001 (2001-10-25) claims 1,8-10 page 3, line 34 - page 4, line 13 -----	1,21
A	US 3 231 363 A (RENNER VICTOR A) 25 January 1966 (1966-01-25) claims 1,6-8 column 5, line 73 - column 7, line 32 -----	1,21
A	GB 836 477 A (ICI LTD) 1 June 1960 (1960-06-01) claims 1,8-12 page 2, line 104 - page 3, line 22 -----	1,21

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/063067

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4115100	A	19-09-1978	BE 852028 A1	05-09-1977
			CA 1094076 A1	20-01-1981
			CH 620339 A5	28-11-1980
			DE 2709108 A1	08-09-1977
			FR 2342965 A1	30-09-1977
			GB 1540975 A	21-02-1979
			IL 51590 A	31-07-1980
			JP 52108978 A	12-09-1977
			NL 7702134 A	07-09-1977
US 2005187123	A1	25-08-2005	US 2005187124 A1	25-08-2005
WO 0179349	A	25-10-2001	AU 5398900 A	30-10-2001
			IT MI20000869 A1	18-10-2001
US 3231363	A	25-01-1966	DE 1592753 A1	13-04-1972
			GB 1036792 A	20-07-1966
GB 836477	A	01-06-1960	NONE	