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(54) Title: SOLID FREE-FLOWING PHOSPHONATE COMPOSITION AND METHOD OF USE

(57) Abstract: Solid free-flowing compositions of a magnesium salt of bis(hexamethylene)triamino penta(methylenephosphonic) acid are disclosed. The compositions exhibit desirable scale inhibitor properties and can be used in water treatment. In addition, a method of scale control is disclosed using the magnesium phosphonic acids under ambient conditions of relative humidity of at least 30% as can apply under subtropical or tropical conditions of high relative humidity. The preferred molar ratios of magnesium to phosphonic acid are in the range of from 1 : 1 to 3 : 1.



WO 03/011773 A3

INTERNATIONAL SEARCH REPORT

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 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C02F5/14

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 C02F

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 3 346 488 A (IRANI RIYAD R ET AL) 10 October 1967 (1967-10-10) column 2, line 57 column 3, line 58 - line 63 ---	1-4
A	US 3 880 764 A (DONHAM JAMES E) 29 April 1975 (1975-04-29) cited in the application column 3, line 49 - column 4, line 36 ---	1-9
A	US 3 613 788 A (KAUTSKY GEORGE J) 19 October 1971 (1971-10-19) cited in the application column 2, line 24 - line 68 ---	1-9
A	US 5 141 655 A (HEN JOHN) 25 August 1992 (1992-08-25) ---	
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in 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	EP 0 822 270 A (SOLUTIA EUROP NV SA) 4 February 1998 (1998-02-04) -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

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