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(54) **Composition and method for inhibiting corrosion.**

(57) A corrosion inhibitor composition and a method for its use in potable and industrial water treatment facilities for controlling corrosion encountered in water distribution systems such as turbine pump blades, the main distribution piping, their tributaries, and domestic and industrial piping comprises a weight ratio of PO_4^{3-} to Zn^{++} of about 2:1 to 3:1. When added at the raw water intake or other suitable point in small but effective quantities, it passivates metal surfaces. The inhibitor is effective within a pH range of about 5-9 but is especially effective in waters having a pH of 6.5-8.



European Patent
Office

EUROPEAN SEARCH REPORT

Application number

EP 79 40 0353

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	<u>FR - A - 2 262 129</u> (DIA PROSIM) * The whole document * --	1-4,7	C 23 F 11/18
X	<u>FR - A - 2 155 153</u> (SOC. PROGIL) * Page 2, lines 1-27; page 6, lines 1-15 * --	1-4,7	
	<u>US - A - 4 089 651</u> (SCOTT) * Column 2, lines 23-28; claims 1-5 * --	6,8	TECHNICAL FIELDS SEARCHED (Int.Cl. ³)
	<u>US - A - 3 669 616</u> (MURRAY) * Column 3, lines 50-75; claims 1-15 * --	5	C 23 F 11/00
	CHEMICAL ABSTRACTS, vol. 44 (1950) abstract 5786e. Columbus, Ohio, USA F.E. WORSNOP et al. "Prevention of corrosion of galvanized iron by glassy metaphosphates". & Chem. Eng. Mining Rev. 42, 173-6 (1950). ----	1	CATEGORY OF CITED DOCUMENTS
			X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons
X	The present search report has been drawn up for all claims		&: member of the same patent family, corresponding document
Place of search		Date of completion of the search	Examiner
The Hague		05-10-1979	VAN LEEUWEN