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(54) Title: HIGHLY ACIDIC COMPOSITION COMPRISING AN ORGANIC ACID IN THE PRESENCE OF METAL CATIONS

(57) Abstract: A highly acidic metalated organic acid composition and its preparation. The acidic composition can be prepared by mixing a monovalent or polyvalent cation and an organic acid in the presence of a strong oxyacid, wherein the resultant acidic composition is less corrosive to a ferrous metal than a solution of a mineral acid having the same acidic pH value as that of the acidic composition, and where in the acid composition is more biocidal than a mixture of the organic acid and metal salt of the organic acid which the mixture has the same acid normality value as that of the acidic composition. The acidic composition can be prepared by mixing at least one regenerating acid, at least one metal base, and at least one organic acid, wherein the amount of the regenerating acid is in excess of the equivalent amount of the metal base.

INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 01/41954

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A23L3/3508 A23L3/3526 A23L3/358 A23B7/10 A23B4/12

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)  
IPC 7 A23B A23L

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	WO 00 48469 A (CUNHA MICHAEL ANTHONY ;KEMP MAURICE CLARENCE (US); LALUM ROBERT BL) 24 August 2000 (2000-08-24)  page 7, line 3 - line 14; claims 1,6,12,19,20,29,49-54; examples 9,32,33 page 7, line 23 -page 11, line 31 page 12, line 20 - line 32  --- -/--	1-3, 8-11,14, 15, 17-22, 27,29, 30,33, 34, 36-40, 43,45, 47,48, 51-58

Further documents are listed in the continuation of box C.  Patent family members are listed in annex.

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 \*P\* document published prior to the international filing date but later than the priority date claimed

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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Authorized officer Guyon, R
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PCT/US 01/41954

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	page 9, line 27 -page 12, line 2; claims 1,5,7,8,11,21-24; examples 1,5,7 -----	1-3, 8-11,14, 15, 17-22, 27,29, 30,33, 34, 36-40, 43,45, 47,48, 51-56
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