

Title (en)

CORROSION INHIBITING COMPOSITION, PROCESS FOR ITS PREPARATION AND ITS USE IN THE FIELD OF METAL SURFACE PROTECTION

Publication

EP 0065609 B1 19850925 (FR)

Application

EP 81400861 A 19810527

Priority

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Abstract (en)

[origin: EP0065609A1] 1. A corrosion inhibiting composition for metallic surfaces in contact with water, containing at least one polyamine component and at least one polyelectrolyte component, said composition being characterized in that it comprises in association a) a substance selected from the polyamines having a molecular weight higher than or equal to 228 and corresponding to the general formula $R-NH-(CH_2)_m-N$ (in which R represents a saturated or unsaturated C12 -C22 hydrocarbon aliphatic radical, m is an integer of between 2 and 8 inclusive, and n is an integer of between 1 and 7 inclusive, the R, m and n values being such that the molecular weight of said polyamines is higher than or equal to 228) and mixtures thereof; and b) a polymeric organic polyelectrolyte selected from (i) the derivatives of the polymaleic type corresponding to the general formula see diagramm : EP0065609,P11,F1 (wherein R3 and R4, which may be identical or different, each represent a hydrogen atom or a C1 -C4 alkyl group, R1 is H, C1 -C4 alkyl, Na⁺⁺, K⁺⁺ or NH4⁺⁺, and n is an integer higher than or equal to 2); (ii) the derivatives of the styrene-maleic type having an unit see diagramm : EP0065609,P11,F2 (wherein R1 is defined as indicated above, n2 is an integer higher than or equal to 1, and n3 and n4, which may be identical or different, each represent an integer higher than or equal to 1, one of the n3 and n4 being able, in the case of a sequenced copolymer, to represent 0); (iii) the derivatives of the polyethyleneimine type corresponding to the general formula : see diagramm : EP0065609,P11,F3 (wherein R2 is H or C1 -C4 alkyl, n1 is defined as indicated above, X^{*-} represents a F^{*-}, Cl^{*-}, Br^{*-} or I^{*-} halogenide ion); (iv) the derivatives of the polyvinylammonium type of the general formula see diagramm : EP0065609,P11,F5 (wherein R2, n1 and X^{*-} are defined as indicated above); (v) the copolymer derivatives of the acrylicstyrenesulfonic type having an unit see diagramm : EP0065609,P12,F1 (wherein R1, R2, n2, n3 and n4 are defined as indicated above); (vi) the derivatives of the lignosulfonate type corresponding to the general formula see diagramm : EP0065609,P12,F2 (wherein R1 and n1 are defined as indicated above); and (vii) mixtures thereof.

IPC 1-7

C23F 11/10

IPC 8 full level

C23F 11/10 (2006.01)

CPC (source: EP)

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Cited by

FR2926302A1; EP1418253A1; FR2846670A1; FR2723750A1; EP2048203A1; US8613847B2; US10906828B2; WO2009092940A1; WO9604411A1; WO2009046915A1; EP0698580B2

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