

Title (en)

Method for corrosion inhibiting water carrying metal systems

Title (de)

Verfahren zur Korrosionsschutzbehandlung wasserführender Metallsysteme

Title (fr)

Procédé pour inhiber la corrosion dans des systèmes métalliques de conduites d'eau

Publication

EP 0860517 B1 20011024 (DE)

Application

EP 98101043 A 19980122

Priority

DE 19706410 A 19970219

Abstract (en)

[origin: EP0860517A1] Process for corrosion protective treatment of water-conveying metal systems involves separate dosing of phosphates and silicates into the water flow. Preferably, the silicates are dosed in amount 1.0-40 mg SiO₂/l as an aqueous silicate solution with a modulus of 1.8-3.5 and a SiO₂ concentration of ≥ 20 wt.%, while the phosphates are dosed in amount 0.1-6.7 mg PO₄/l as an aqueous phosphate solution with a PO₄ concentration of ≥ 20 wt.%. Also claimed is a medium which is used in the above corrosion protective treatment process and which contains, in aqueous solution, (a) alkali metal silicates, carbonates and hydrogen carbonates, with SiO₂ and CO₃ concentrations of 20 wt.% and 0.1 wt.%, respectively; or (b) alkali metal orthophosphates and polyphosphates in amount (based on total phosphate content, expressed as PO₄) 25-75 wt.% each, the total PO₄ concentration being ≥ 20 wt.%.

IPC 1-7

C23F 11/18

IPC 8 full level

C23F 11/18 (2006.01)

CPC (source: EP)

C23F 11/188 (2013.01)

Citation (examination)

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Designated contracting state (EPC)

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