

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 SiO<sub>2</sub>/l as an aqueous silicate solution with a modulus of 1.8-3.5 and a SiO<sub>2</sub> concentration of  $\geq 20$  wt.%, while the phosphates are dosed in amount 0.1-6.7 mg PO<sub>4</sub>/l as an aqueous phosphate solution with a PO<sub>4</sub> concentration of  $\geq 20$  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 SiO<sub>2</sub> and CO<sub>3</sub> 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 PO<sub>4</sub>) 25-75 wt.% each, the total PO<sub>4</sub> concentration being  $\geq 20$  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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