

Title (en)

N-HALAMINE/QUATERNARY AMMONIUM POLYSILOXANE COPOLYMERS

Title (de)

POLYSILOXANECOPOLYMERE MIT N-HALAMIN- UND QUARTÄREN AMMONIUMGRUPPEN

Title (fr)

COPOLYMERES N-HALAMINE/POLYSILOXANE AMMONIUM QUATERNAIRE

Publication

EP 1919981 A2 20080514 (EN)

Application

EP 06851123 A 20060808

Priority

- US 2006030909 W 20060808
- US 70743805 P 20050811

Abstract (en)

[origin: WO2007120173A2] Precursor N-halamine/quaternary ammonium random copolymers which are soluble in water for the purpose of functionalizing surfaces or materials so as to render them biocidal upon exposure to oxidative halogen solutions. The biocidal function can be imparted to the precursor N-halamine moiety either before or after siloxane bonding or adhesion to the surface or material. The biocidal surfaces and materials can then be used to inactivate pathogenic microorganisms such as bacteria, fungi, and yeasts, as well as virus particles, that can cause infectious diseases and those microorganisms that cause noxious odors and unpleasant coloring such as mildew. Examples of surfaces and materials which can be rendered biocidal include, but are not limited to, cellulose, chitin, chitosan, synthetic fibers, glass, ceramics, plastics, rubber, cement grout, latex caulk, porcelain, acrylic films, vinyl, polyurethanes, silicon tubing, marble, metals, metal oxides, and silica.

IPC 8 full level

C07D 233/00 (2006.01); **C08G 77/26** (2006.01); **C08G 77/388** (2006.01); **C08G 77/452** (2006.01); **C09D 183/10** (2006.01)

CPC (source: EP)

C08G 77/26 (2013.01); **C08G 77/388** (2013.01); **C08G 77/452** (2013.01); **C09D 183/10** (2013.01)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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