

Title (en)  
COPOLYMERS OF ACRYLOYLOXYALKYLAMINO COMPOUNDS

Title (de)  
COPOLYMERE VON ACRYLOYLOXYALKYLAMINOVERBINDUNGEN

Title (fr)  
COPOLYMERES DE COMPOSES ACRYLOYLOXYALKYLAMINO

Publication  
**EP 1214367 A1 20020619 (DE)**

Application  
**EP 00953058 A 20000717**

Priority  

- DE 19940697 A 19990827
- DE 19952221 A 19991029
- DE 19955992 A 19991120
- EP 0006812 W 20000717

Abstract (en)  
[origin: WO0116193A1] The invention relates to antimicrobial polymers which are produced by copolymerising a monomer of formula (I) wherein R<1>= -H or -CH<sub>3</sub>, R<2>= a branched or unbranched aliphatic hydrocarbon radical with 1 to 5 carbon atoms, Y = NR<3>R<4>, N<+>R<3>R<4>R<5>X<->, R<3>, R<4>, R<5> = a substituted or unsubstituted, branched or unbranched aliphatic or aromatic hydrocarbon radical with 1 to 50 carbon atoms, R<3>, R<4> and R<5> being the same or different, and X<->= CH<sub>3</sub>SO<->4, NO<->3, F<->, Cl<->, Br<->, I<->, CH<sub>3</sub>CH<sub>2</sub><->, NO<sub>2</sub><->, NO<->, CN<->, SCN<->, CNO<->, ClO<->, ClO<sub>2</sub><->, ClO<sub>3</sub><->, ClO<sub>4</sub><->; with other aliphatically unsaturated monomers. The invention also relates to a method for producing said polymers. The monomers of formula (I) can be especially, benzophenone derivatives. The polymers can also be produced by graft copolymerisation of a substrate, whereby a covalently bonded coating is obtained on the substrate surface. The inventive antimicrobial polymers can be used as a microbicide coating on e.g., hygiene items or in the area of medicine, and in paints or protective coatings.

IPC 1-7  
**C08F 20/34; A01N 33/12**

IPC 8 full level  
**A01N 25/10** (2006.01); **A01N 37/12** (2006.01); **C08F 20/34** (2006.01); **C08F 220/34** (2006.01)

CPC (source: EP US)  
**A01N 25/10** (2013.01 - EP); **A01N 37/12** (2013.01 - EP); **C08F 20/34** (2013.01 - EP US)

Citation (search report)  
See references of WO 0116193A1

Designated contracting state (EPC)  
AT BE CH DE ES FI FR GB IE IT LI NL PT SE

DOCDB simple family (publication)  
**WO 0116193 A1 20010308**; AU 6564600 A 20010326; EP 1214367 A1 20020619

DOCDB simple family (application)  
**EP 0006812 W 20000717**; AU 6564600 A 20000717; EP 00953058 A 20000717