

Title (en)

CATIONICALLY MODIFIED COMB POLYMERS BASED ON ACRYLOYLDIMETHYL TAURINE ACID

Title (de)

KATIONISCH MODIFIZIERTE KAMMPOLYMERE AUF BASIS VON ACRYLOYLDIMETHYLTAURINSÄURE

Title (fr)

POLYMERES EN PEIGNE MODIFIES PAR VOIE CATIONIQUE, A BASE D'ACIDE D'ACRYLOLYMETHYLTAURINE

Publication

EP 1339765 A1 20030903 (DE)

Application

EP 01994741 A 20011128

Priority

- DE 10059830 A 20001201
- EP 0113856 W 20011128

Abstract (en)

[origin: WO0244229A1] The invention relates to water-soluble or water-swellaable copolymers, which can be obtained by radically copolymerizing: A) acryloyldimethyl taurine acid and/or acryloyldimethyltaurates; B) optionally one or more additional olefinically unsaturated, non-cationic, optionally cross-linking comonomers, which comprise at least one oxygen atom, nitrogen atom, sulfur atom or phosphorous atom and which have a molecular weight of less than 500 g/mol; C) one or more macromonomers, which are olefinically unsaturated once or a number of times, which are optionally cross-linking, which each comprise at least one oxygen atom, nitrogen atom, sulfur atom or phosphorous atom, and which have an average molecular weight of greater than or equal to 200 g/mol, and; D) one or more olefinically unsaturated, cationic comonomers, which comprise at least one oxygen atom, nitrogen atom, sulfur atom or phosphorous atom and which have a molecular weight of less than 500 g/mol, whereby the copolymerization; E) optionally ensues in the presence of at least one polymeric additive having average molecular weights ranging from 200 g/mol to 10<9> g/mol.

IPC 1-7

C08F 290/06; C08L 51/00; C08F 291/00; C08F 2/22; C08F 265/04; C08F 271/02

IPC 8 full level

A61K 8/72 (2006.01); **C08F 290/06** (2006.01); **A61K 8/81** (2006.01); **A61K 8/86** (2006.01); **A61Q 19/00** (2006.01); **C08F 2/22** (2006.01); **C08F 2/44** (2006.01); **C08F 20/38** (2006.01); **C08F 265/04** (2006.01); **C08F 271/02** (2006.01); **C08F 290/02** (2006.01); **C08F 291/00** (2006.01); **C08L 51/00** (2006.01)

CPC (source: EP US)

A61K 8/8158 (2013.01 - EP US); **A61K 8/8182** (2013.01 - EP US); **A61K 8/86** (2013.01 - EP US); **A61Q 19/00** (2013.01 - EP US); **C08F 265/04** (2013.01 - EP US); **C08F 271/02** (2013.01 - EP US); **C08F 290/06** (2013.01 - EP US); **C08F 291/00** (2013.01 - EP US); **C08L 51/003** (2013.01 - EP US); **A61K 2800/54** (2013.01 - EP US)

Citation (search report)

See references of WO 0244229A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

WO 0244229 A1 20020606; BR 0115834 A 20040106; DE 10059830 A1 20020613; EP 1339765 A1 20030903; JP 2002201224 A 20020719; US 2005032998 A1 20050210; US 7081507 B2 20060725

DOCDB simple family (application)

EP 0113856 W 20011128; BR 0115834 A 20011128; DE 10059830 A 20001201; EP 01994741 A 20011128; JP 2001296001 A 20010927; US 43300603 A 20031117