

Title (en)

ECOFRIENDLY CATIONIC POLYELECTROLYTES

Title (de)

KATIONISCHE POLYELEKTROLYTE MIT GUTER UMWELTVERTRÄGLICHKEIT

Title (fr)

POLYELECTROLYTES CATIONIQUES RESPECTUEUX DE L'ENVIRONNEMENT

Publication

EP 1539845 A1 20050615 (DE)

Application

EP 03755548 A 20030730

Priority

- DE 10240797 A 20020830
- EP 0308428 W 20030730

Abstract (en)

[origin: WO2004020490A1] The invention relates to cationic water-soluble polyelectrolytes, especially terpolymers, which are obtained by polymerising monomers of (meth)acrylamide, a quaternised (meth)acrylamide derivative, a (meth)acrylic acid derivative and/or hydrolysis-stable cationic monomers. The composition of the polyelectrolytes is characterised by a toxicity index formula $Fi = (QTP - 2QME)/10 \leq 1$ WHEREIN QTP represents the total cationic charge of the polymer and QME represents the charge part of the ester type monomer. The invention also relates to the production and use of said polyelectrolytes and water-in-water polymer dispersions which contain said polyelectrolytes.

IPC 1-7

C08F 220/56; C02F 11/00

IPC 8 full level

C08F 220/56 (2006.01)

CPC (source: EP US)

C08F 220/56 (2013.01 - EP US)

Citation (search report)

See references of WO 2004020490A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004020490 A1 20040311; AU 2003273393 A1 20040319; DE 10240797 A1 20040311; EP 1539845 A1 20050615; RU 2005109152 A 20051027; RU 2321599 C2 20080410; US 2005242045 A1 20051103; US 7375173 B2 20080520

DOCDB simple family (application)

EP 0308428 W 20030730; AU 2003273393 A 20030730; DE 10240797 A 20020830; EP 03755548 A 20030730; RU 2005109152 A 20030730; US 51859504 A 20041221