

Title (en)

PROCESS FOR PRODUCING LOW-VISCOSITY AQUEOUS ESTERQUAT CONCENTRATES

Title (de)

VERFAHREN ZUR HERSTELLUNG NIEDRIGVISKOSER WÄSSRIGER ESTERQUAT-KONZENTRATE

Title (fr)

PROCEDE DE FABRICATION DE CONCENTRES AQUEUX, DE FAIBLE VISCOSITE, D'ESTERS QUATERNISES

Publication

EP 0625184 B1 19951220 (DE)

Application

EP 93917366 A 19930129

Priority

- DE 4203489 A 19920207
- EP 9300203 W 19930129

Abstract (en)

[origin: WO9316157A1] Low-viscosity aqueous esterquat concentrates are obtained by adding to aqueous solutions of quaternised di-fatty acid trialkanol amine esters of formula (I), in which R?1CO is an aliphatic, linear or branched saturated acyl radical with 6 to 22 carbon atoms, [Z] is an ethylene, propylene or isopropylene group and X is chloride, bromide, sulphate, methosulphate or phosphate, at least one viscosity regulator selected from the group formed by a) quaternised unsaturated di-fatty acid trialkanol amine ester salts, b) quaternised fatty acid amidoamine salts, c) diquaternised fatty acid triethanol amine ester salts.

IPC 1-7

C11D 1/62; C11D 3/00; D06M 13/463; D06M 13/467

IPC 8 full level

C09K 3/00 (2006.01); **C09K 3/16** (2006.01); **C11D 1/62** (2006.01); **C11D 1/645** (2006.01); **C11D 3/00** (2006.01); **D06M 13/144** (2006.01);
D06M 13/224 (2006.01); **D06M 13/463** (2006.01); **D06M 13/467** (2006.01)

CPC (source: EP)

C11D 1/62 (2013.01); **C11D 1/645** (2013.01); **C11D 3/0015** (2013.01); **D06M 13/144** (2013.01); **D06M 13/224** (2013.01); **D06M 13/463** (2013.01);
D06M 13/467 (2013.01); **D06M 2200/00** (2013.01)

Designated contracting state (EPC)

BE DE ES FR IT NL

DOCDB simple family (publication)

WO 9316157 A1 19930819; DE 4203489 A1 19930812; DE 59301215 D1 19960201; EP 0625184 A1 19941123; EP 0625184 B1 19951220;
ES 2081719 T3 19960316; JP H07503503 A 19950413

DOCDB simple family (application)

EP 9300203 W 19930129; DE 4203489 A 19920207; DE 59301215 T 19930129; EP 93917366 A 19930129; ES 93917366 T 19930129;
JP 51371993 A 19930129