

Title (en)

STABLE AQUEOUS POLYMER EMULSIONS, PRODUCTION AND USE THEREOF

Title (de)

STABILE WÄSSRIGE POLYMEREMULSIONEN, IHRE HERSTELLUNG UND VERWENDUNG

Title (fr)

EMULSIONS POLYMERES AQUEUSES STABLES, LEUR PREPARATION ET LEUR UTILISATION

Publication

EP 1268614 A1 20030102 (DE)

Application

EP 01931548 A 20010326

Priority

- DE 10015174 A 20000327
- EP 0103406 W 20010326

Abstract (en)

[origin: WO172874A1] Disclosed are stable aqueous polymer emulsions comprising constituents A - C, water and optionally auxiliary agents and additives, wherein constituent C is formed by polyolefin oxydates containing carboxyl and ester groups in particular; constituent D is formed by aminofunctional polyorganosiloxanes; component E consists of non-ionic emulsifiers. Preferably, the polymer emulsions also contain fatty acid condensation products comprising 5 -150 mol % amino alcohols per mol of fatty acid and 5 - 200 mol % polyolene (constituent D) per mol of fatty acid and at least partially quaternated fatty acid condensation products comprising 0.35 3.5 mol tertiary amino alcohols quaternated with quaternating agents of formula X-R<14> per mol of fatty acid, in which formula X is a cleavable radical in the form of an anion and R<14> is a low alkyl radical. The invention also relates to a method for advantageous production of the inventive polymer emulsions and the use thereof as auxiliary agents in high-grade textile finishes, especially as softeners, smoothing agents and in order to improve sewing behaviour.

IPC 1-7

C08J 3/03; **D06M 15/19**; **C08L 23/00**; **C08L 83/08**; **C08L 23/30**; **D06M 15/643**; **D06M 15/227**

IPC 8 full level

C08J 3/02 (2006.01); **C08J 3/03** (2006.01); **C08J 3/05** (2006.01); **C08L 23/30** (2006.01); **C08L 31/02** (2006.01); **C08L 83/04** (2006.01); **C08L 83/08** (2006.01); **D06M 13/224** (2006.01); **D06M 13/419** (2006.01); **D06M 13/463** (2006.01); **D06M 15/19** (2006.01); **D06M 15/227** (2006.01); **D06M 15/263** (2006.01); **D06M 15/643** (2006.01)

CPC (source: EP US)

C08J 3/03 (2013.01 - EP US); **C08L 23/30** (2013.01 - EP US); **C08L 83/08** (2013.01 - EP US); **D06M 7/00** (2013.01 - EP US); **D06M 13/224** (2013.01 - EP US); **D06M 13/419** (2013.01 - EP US); **D06M 13/463** (2013.01 - EP US); **D06M 15/227** (2013.01 - EP US); **D06M 15/263** (2013.01 - EP US); **D06M 15/6436** (2013.01 - EP US); **C08J 2323/30** (2013.01 - EP US); **C08L 2201/52** (2013.01 - EP US); **D06M 2200/40** (2013.01 - EP US); **D06M 2200/50** (2013.01 - EP US)

Citation (search report)

See references of WO 0172874A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0172874 A1 20011004; AU 5829701 A 20011008; CN 1420902 A 20030528; DE 10015174 A1 20011004; EP 1268614 A1 20030102; US 2004024112 A1 20040205

DOCDB simple family (application)

EP 0103406 W 20010326; AU 5829701 A 20010326; CN 01807371 A 20010326; DE 10015174 A 20000327; EP 01931548 A 20010326; US 23940802 A 20021202