Title (en)

REACTION PRODUCTS OF CHAIN-EXTENDED POLYAMINE COMPOUNDS AND FATTY ACID-CONTAINING MATERIALS.

Title (de)

REAKTIONSPRODUKTE VON KETTENVERLÄNGERTEN POLYAMINEN UND FETTSÄURE-HALTIGEN SUBSTANZEN.

Title (fr)

PRODUIT REACTIONNEL DE COMPOSES DE POLYAMINE A CHAINE ALLONGEE ET MATERIAU CONTENANT UN ACIDE GRAS.

Publication

EP 0650472 A1 19950503 (EN)

Application

EP 93915491 A 19930629

Priority

- US 9306198 W 19930629
- US 90677292 A 19920630

Abstract (en)

[origin: WO9400418A1] Chain-extended polyamines with at least one fatty acid moiety are produced. One or more polyorgano amine compounds having alkyl, aryl, and/or alkylaryl groups are reacted with a chain extender that is difunctional for reaction with the amine groups of the polyamine. The number of carbon atoms for the chain extender and the amount of amine functionality on the polyamine is balanced to produce at least a water-dispersible chain-extended polyamine. The chain-extended polyamine is further reacted or the polyamine and the chain-extender are reacted simultaneously with one or more fatty acids which are predominantly monovalent for reaction with the chain-extended polyamine to produce chain-extended polyamine with at least one fatty acid moiety that is at least water-dispersible. These materials can be present with or without water on various substrates including fibers, strands, yarns and glass substrates like these and plates and beads.

IPC 1-7

C07C 233/00; C10M 105/68; C03C 17/32; C07C 233/36; D06M 13/405; D06M 15/61; C08G 73/02; B01F 17/00

IPC 8 full level

C03C 17/32 (2006.01); **C03C 25/26** (2006.01); **C07C 233/00** (2006.01); **C07C 233/36** (2006.01); **C08G 18/32** (2006.01); **C08G 59/50** (2006.01); **C08G 69/00** (2006.01); **C08G 73/00** (2006.01); **C10M 105/68** (2006.01); **C10M 107/44** (2006.01); **C10M 109/02** (2006.01); **D06M 13/405** (2006.01); **D06M 15/592** (2006.01); **D06M 15/61** (2006.01); C10N 40/00 (2006.01)

CPC (source: EP)

C03C 17/32 (2013.01); **C03C 25/26** (2013.01); **C07C 233/36** (2013.01); **C10M 105/68** (2013.01); **C10M 107/44** (2013.01); **D06M 7/00** (2013.01); **D06M 13/405** (2013.01); **D06M 15/592** (2013.01); **D06M 15/61** (2013.01); C10M 2201/02 (2013.01); C10M 2215/04 (2013.01); C10M 2215/26 (2013.01); C10M 2217/046 (2013.01); C10M 2217/06 (2013.01); C10N 2040/00 (2013.01); C10N 2040/30 (2013.01); C10N 2040/32 (2013.01); C10N 2040/34 (2013.01); C10N 2040/36 (2013.01); C10N 2040/38 (2020.05); C10N 2040/40 (2020.05); C10N 2040/42 (2020.05); C10N 2040/44 (2020.05); C10N 2040/46 (2020.05); C10N 2040/50 (2020.05); D06M 2200/40 (2013.01)

Designated contracting state (EPC)

BE DE FR GB IT

DOCDB simple family (publication)

WO 9400418 A1 19940106; CA 2138140 A1 19940106; EP 0650472 A1 19950503; EP 0650472 A4 19950302; JP H07508780 A 19950928; MX 9303946 A 19940429

DOCDB simple family (application)

US 9306198 W 19930629; CA 2138140 A 19930629; EP 93915491 A 19930629; JP 50264493 A 19930629; MX 9303946 A 19930630