

Title (en)

USE OF OLIGOMERIC CARBODIIMIDES AS STABILIZERS

Title (de)

VERWENDUNG OLIGOMERER CARBODIIMIDE ALS STABILISATOREN

Title (fr)

UTILISATION DE CARBODIIMIDES OLIGOMÈRES COMME STABILISATEURS

Publication

EP 2686297 A2 20140122 (DE)

Application

EP 12710204 A 20120315

Priority

- EP 11158914 A 20110318
- EP 2012054550 W 20120315
- EP 12710204 A 20120315

Abstract (en)

[origin: WO2012126797A2] The invention relates to the use of oligomeric carbodiimides containing at least one heterocyclic end group as stabilizers for polymers. The oligomeric carbodiimides can be compounds of the general formula (I), in which A1, A2 are identical or different and represent hydrocarbon groups with 2 to 20 carbon atoms independently of each other; B1, B2 are identical or different and represent heterocycles, C1-C30 alcohols, polyetherols, polyesterols, amines, polyetheramines, polyesteramines, thioalcohols, polyetherthiols, polyesterthiols independently of each other; R1, R2 are identical or different and represent (A) independently of each other; and n represents a whole number ranging from 2 to 100; wherein A1, A2, B1 and B2 can each be substituted with C1-C20 alkyl, C2-C20 alkenyl, C2-C20 alkynyl, C1-C20 alkoxy, carbonyl oxygen (=O), or halogen at any position with the proviso that at least one substituent of B1 or B2 is a heterocyclic end group. The invention further relates to methods for stabilizing polymers against hydrolysis using oligomeric carbodiimides.

IPC 8 full level

C07C 267/00 (2006.01); **C07C 271/00** (2006.01)

CPC (source: EP)

C07C 267/00 (2013.01); **C07D 207/404** (2013.01); **C07D 223/10** (2013.01); **C07D 263/14** (2013.01); **C07D 263/22** (2013.01)

Citation (search report)

See references of WO 2012126797A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012126797 A2 20120927; **WO 2012126797 A3 20130110**; EP 2686297 A2 20140122

DOCDB simple family (application)

EP 2012054550 W 20120315; EP 12710204 A 20120315