

Title (en)
NOVEL SECONDARY AND TERTIARY AMINES AND THE USE THEREOF IN COMPOSITIONS AND IN STABILIZATION OF POLYMERS AGAINST ULTRAVIOLET LIGHT DEGRADATION.

Title (de)
NEUE SEKUNDÄRE UND TERTIÄRE AMINE UND DEREN VERWENDUNG IN ZUSAMMENSETZUNGEN UND BEIM STABILISIEREN VON POLYMEREN GEGEN ABBAU DURCH ULTRAVIOLETT-LICHT.

Title (fr)
NOUVELLES AMINES SECONDAIRES ET TERTIAIRES ET LEUR UTILISATION DANS DES COMPOSITIONS ET DANS LA STABILISATION DE POLYMERES CONTRE LA DEGRADATION PAR LA LUMIERE ULTRAVIOLETTE.

Publication
EP 0041555 A1 19811216 (EN)

Application
EP 81900159 A 19801106

Priority
US 10197279 A 19791210

Abstract (en)
[origin: WO8101706A1] Novel compounds, compositions and methods for stabilization of ultraviolet light sensitive polymers against photodegradation. The novel secondary and tertiary amines of this invention can be represented by the following structural formula: (FORMULA) with R and R' being independently selected from the group consisting of alkyl, hydroxy substituted alkyl, aryl, amino or hydroxy substituted aryl, aralkyl and amino or hydroxy substituted aralkyl; R<u1>u and R<u2>u being independently selected from hydrogen, alkyl, aralkyl; R<u3>u and R<u4>u being independently selected from alkyl of 1 to 4 carbon atoms and capable of collectively forming a cycloalkyl substituent; A and A' being independently selected from the group consisting of alkylene of 1 to 12 carbon atoms; and m is 0-4; n is 1-3. The above compounds are especially suitable in the stabilization of polyolefins (i.e. polypropylene) against the degradative forces of ultraviolet light.

Abstract (fr)
Nouveaux composes, compositions et procedes de stabilisation de polymeres sensibles a la lumiere ultraviolette contre la photodegradation. Les nouvelles amines secondaires et tertiaires de cette invention peuvent etre representees par la formule suivante: (FORMULE) R et R' etant choisis independamment parmi le groupe comprenant un alkyle, un alkyle a substitution hydroxy, un aryle un aryle a substitution hydroxy ou amino, un aralkyle et un aralkyle a substitution hydroxy ou amino; R1 et R2 etant choisis independamment parmi l'hydrogene, un alkyle, l'aralkyle, R3 et R4 etant choisis independamment un alkyle de 1 a 4 atomes de carbone et capables de former collectivement un substituant de cyclo alkyle; A et A' etant choisis independamment parmi le groupe consistant en alkylene de 1 a 12 atomes de carbone; et m a une valeur de 0 a 4, et n de valeur 1 a 3. Les composes ci-dessus sont specialement appropries pour la stabilisation de polyolefines (polypropylene) contre les forces de degradation de la lumiere ultraviolette.

IPC 1-7
C07D 211/12; C07D 211/14; C07D 211/58; C07D 401/12; C07D 401/14

IPC 8 full level
C08K 5/34 (2006.01); **C07D 211/00** (2006.01); **C07D 211/58** (2006.01); **C08K 5/00** (2006.01); **C08K 5/3412** (2006.01); **C08K 5/3435** (2006.01); **C08L 101/00** (2006.01)

CPC (source: EP)
C07D 211/58 (2013.01); **C08K 5/3435** (2013.01)

Designated contracting state (EPC)
CH DE FR GB LI NL

DOCDB simple family (publication)
WO 8101706 A1 19810625; BE 886428 A 19810401; BR 8008958 A 19811020; EP 0041555 A1 19811216; EP 0041555 A4 19820422; ES 497599 A0 19820401; ES 8203344 A1 19820401; GR 71618 B 19830617; JP S56501681 A 19811119

DOCDB simple family (application)
US 8001499 W 19801106; BE 202996 A 19801201; BR 8008958 A 19801106; EP 81900159 A 19801106; ES 497599 A 19801210; GR 800163542 A 19801203; JP 50034581 A 19801106