

Title (en)  
POLYMERIC ANTIOXIDANTS

Title (de)  
POLYMERE ANTIOXIDANTIEN

Title (fr)  
ANTI-OXYDANTS POLYMERES

Publication  
**EP 1716200 A1 20061102 (EN)**

Application  
**EP 05722491 A 20050121**

Priority

- US 2005001946 W 20050121
- US 76193304 A 20040121

Abstract (en)  
[origin: CA2552796A1] One group of polymers comprise repeat units of Structural Formula (I) and/or (II) where: R is -H or a substituted or unsubstituted alkyl, acyl or aryl group; Rings A and B are substituted with at least one tert-butyl group, 1-ethenyl-2-carboxylic acid group or ester thereof, substituted or unsubstituted alkylendioxy group, or substituted or unsubstituted n-alkoxycarbonyl group and optionally additional functional groups; Ring B is additionally substituted with at least one -H; n is equal to or greater than 2; and p is equal to or greater than 0. The polymer typically includes at least two substituted benzene repeat units that are directly connected by C-C or C-O-C bonds between benzene rings. Alternatively, each repeat unit of the polymer is an antioxidant. The invention also includes methods of making and using these and related polymers, particularly as antioxidants.

IPC 8 full level  
**C08K 5/00** (2006.01)

CPC (source: KR)  
**A23L 3/349** (2013.01); **C08G 61/10** (2013.01); **C08G 65/44** (2013.01); **C09K 15/08** (2013.01); **C09K 15/10** (2013.01); **C09K 15/12** (2013.01); **C09K 15/18** (2013.01); **C09K 15/20** (2013.01); **C08G 2261/43** (2013.01); **C10M 2207/026** (2013.01); **C10M 2209/10** (2013.01)

Citation (search report)  
See references of WO 2005071005A1

Cited by  
CN114032077A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
CA 2552796 A1 20050804; EP 1716200 A1 20061102; JP 2007523234 A 20070816; KR 20070051774 A 20070518

DOCDB simple family (application)  
CA 2552796 A 20050121; EP 05722491 A 20050121; JP 2006551301 A 20050121; KR 20067016597 A 20060818