

Title (en)  
TYRE BELT INCORPORATING AN ANTI-OXIDANT AGENT

Title (de)  
REIFENGÜRTEL MIT OXIDATIONSHEMMER

Title (fr)  
CEINTURE DE PNEUMATIQUE INCORPORANT UN AGENT ANTIOXYDANT

Publication  
**EP 2013038 A1 20090114 (FR)**

Application  
**EP 07724411 A 20070420**

Priority  
• EP 2007003474 W 20070420  
• FR 0603638 A 20060420

Abstract (en)  
[origin: WO2007121936A1] Tyre belt comprising a rubber composition based on at least one isoprenic elastomer, a reinforcing filler, a cross-linkage system and an anti-oxidant agent, characterised in that said anti-oxidant agent comprises a 4,4'- bis(alkylamino)-triphenylamine that fits the formula (I) in which R<sup>1</sup> and R<sup>2</sup>, identical or different, each represent a linear or branched alkyl group, that has between 1 and 12 atoms of carbon or a cycloalkyl group that has between 5 and 8 atoms of carbon. Said anti-oxidant gives the inventive belt better long-term resistance to fatigue and to crack propagation.

IPC 8 full level  
**B60C 13/00** (2006.01); **B60C 19/00** (2006.01)

CPC (source: EP KR US)  
**B29D 30/08** (2013.01 - KR); **B29D 30/40** (2013.01 - KR); **B60C 9/2006** (2013.01 - EP KR US); **C08K 5/18** (2013.01 - EP KR US); **C08L 7/00** (2013.01 - KR); **B60C 2001/0066** (2013.01 - KR); **Y10T 152/1081** (2015.01 - US)

C-Set (source: EP US)  
**C08K 5/18 + C08L 21/00**

Citation (search report)  
See references of WO 2007121936A1

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 LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**FR 2900156 A1 20071026; FR 2900156 B1 20080704**; CN 101448656 A 20090603; CN 101448656 B 20111012; EP 2013038 A1 20090114; JP 2009534240 A 20090924; JP 5226663 B2 20130703; KR 20090008377 A 20090121; RU 2008145767 A 20100527; RU 2442805 C2 20120220; US 2009165919 A1 20090702; US 8763660 B2 20140701; WO 2007121936 A1 20071101

DOCDB simple family (application)  
**FR 0603638 A 20060420**; CN 200780018038 A 20070420; EP 07724411 A 20070420; EP 2007003474 W 20070420; JP 2009505785 A 20070420; KR 20087028324 A 20081119; RU 2008145767 A 20070420; US 29780907 A 20070420