

Title (en)
RUBBER COMPOSITION WITH LONGER LASTING ANTIOZONATION

Title (de)
KAUTSCHUKZUSAMMENSETZUNG MIT LÄNGER ANHALTENDER OZONIERUNG

Title (fr)
COMPOSITION DE CAOUTCHOUC AYANT UNE ANTIOZONATION DURABLE

Publication
EP 4271741 A1 20231108 (EN)

Application
EP 20968171 A 20201231

Priority
US 2020067702 W 20201231

Abstract (en)
[origin: WO2022146442A1] A rubber composition having improved antiozonation performance comprising a substituted quinoneimine form of substituted p-(hydroxy)phenylamine. Such a composition is particularly suitable for rubber articles. The improved rubber composition possesses a long lasting antiozonation performance, slowing migration through the rubber article and reducing effluence of the antiozonant. Such rubber articles may include rubber pneumatic tires, solid tires, non-pneumatic tires, belts, hoses, cables, automotive mounts, bushings and general mechanic products that are exposed to continuous and intermittent dynamic operation conditions and require protection from ozonation.

IPC 8 full level
C08K 5/18 (2006.01); **C09C 1/44** (2006.01); **C09C 1/56** (2006.01)

CPC (source: EP)
C08K 3/04 (2013.01); **C08K 3/06** (2013.01); **C08K 5/18** (2013.01); **C08K 5/47** (2013.01)

C-Set (source: EP)
1. **C08K 5/18 + C08L 7/00**
2. **C08K 3/04 + C08L 7/00**
3. **C08K 3/06 + C08L 7/00**
4. **C08K 5/47 + C08L 7/00**
5. **C08K 5/29 + C08L 7/00**
6. **C08K 5/37 + C08L 7/00**

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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022146442 A1 20220707; CN 116964157 A 20231027; EP 4271741 A1 20231108; EP 4271741 A4 20240918

DOCDB simple family (application)
US 2020067702 W 20201231; CN 202080108267 A 20201231; EP 20968171 A 20201231