Title (en)

ARAMID TIRE CORD AND MANUFACTURING METHOD THEREOF

Title (de)

ARAMIDREIFENCORD UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

CÂBLÉ D'ARAMIDE ET PROCÉDÉ DE FABRICATION CORRESPONDANT

Publication

EP 2281932 A8 20110323 (EN)

Application

EP 09738969 A 20090428

Priority

- KR 2009002232 W 20090428
- KR 20080039924 A 20080429
- KR 20080039993 A 20080429
- KR 20080040179 A 20080430

Abstract (en)

[origin: EP2281932A2] Disclosed is aramid tire cord and a method for manufacturing the same, wherein the aramid tire cord has superior properties on initial modulus change rate, tensile strain, initial modulus and strength retention rate, wherein the initial modulus change rate is not more than 5% after the aramid tire cord is repetitively extended 10 times at 120°C under the condition that the load corresponding to 10% of the strength at break is applied thereto. Thus, the aramid tire cord of the present invention has the most optimal modulus, optimal crystallization constant and optimal crystalline orientation constant so that the aramid tire cord is superior in its initial modulus change rate, tensile strain and initial modulus retention rate, to thereby obtain good fatigue resistance. Thus, if the aramid tire cord of the present invention is used for a tire-reinforcing material, it is possible to obtain high traveling performance by preventing the property deterioration during the high-speed traveling with repetitively-occurring sequence of high temperature and high pressure.

IPC 8 full level

D01F 6/60 (2006.01); **D02G 3/48** (2006.01)

CPC (source: EP KR US)

B29B 15/125 (2013.01 - EP US); **B60C 9/00** (2013.01 - KR); **D01D 5/06** (2013.01 - EP US); **D01D 10/0481** (2013.01 - EP US); **D01F 6/605** (2013.01 - EP US); **D02G 3/48** (2013.01 - EP KR US); B29K 2061/04 (2013.01 - EP US); B29K 2277/10 (2013.01 - EP US); D10B 2331/021 (2013.01 - EP US)

Citation (search report)

See references of WO 2009134063A2

Cited by

US2022324258A1

Designated contracting state (EPC)

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 SE SI SK TR

DOCDB simple family (publication)

EP 2281932 A2 20110209; **EP 2281932 A4 20150812**; **EP 2281932 A8 20110323**; **EP 2281932 B1 20160907**; **EP 2281932 B8 20161012**; CN 102076896 A 20110525; CN 102076896 B 20120620; HU E032127 T2 20170828; KR 101203350 B1 20121120; KR 20090114318 A 20091103; US 2011048604 A1 20110303; US 9109304 B2 20150818; WO 2009134063 A2 20091105; WO 2009134063 A3 20100311

DOCDB simple family (application)

EP 09738969 A 20090428; CN 200980125090 A 20090428; HU E09738969 A 20090428; KR 2009002232 W 20090428; KR 20090037322 A 20090428; US 99019209 A 20090428