

Title (en)
CARBOXYLIC ACID ESTER COLOR-STABILIZED PHENOLIC BOUND ABRASIVE PRODUCTS AND METHODS FOR MAKING SAME

Title (de)
MIT CARBONSÄUREESTER FARBLICH STABILISIERTE PHENOLGEBUNDENE SCHLEIFMITTEL UND IHRE HERSTELLUNG

Title (fr)
PRODUITS ABRASIFS À BASE D'ESTER D'ACIDE CARBOXYLIQUE À LIANT PHÉNOLIQUE AUX COULEURS STABILISÉES, ET PROCÉDÉS DE FABRICATION ASSOCIÉS

Publication
EP 2367893 A4 20150225 (EN)

Application
EP 09826893 A 20091116

Priority
• US 2009064546 W 20091116
• US 19947208 P 20081117

Abstract (en)
[origin: WO2010057075A2] Described is a color-stable abrasive article that includes a phenolic resin binder; a color stabilizer, a colorant, and abrasive grains. The color stabilizer includes at least one carboxylic acid ester. The color-stable abrasive article is formed by a method including the steps of blending a resole and a color stabilizer to form a resole composition; contacting a plurality of abrasive particles with the resole composition; and curing the resole composition to produce the color-stable abrasive article. Thus provided are color stabilized phenolic bound abrasives and a method for making such abrasives that resist color change over time and upon exposure to high temperature and maintain the mechanical strength of a phenolic resin.

IPC 8 full level
B24D 3/34 (2006.01); **C08K 5/00** (2006.01); **C08K 5/09** (2006.01)

CPC (source: EP KR US)
B24D 3/344 (2013.01 - EP US); **C08J 5/00** (2013.01 - KR); **C08K 5/005** (2013.01 - EP US); **C09K 3/14** (2013.01 - KR); **C08K 5/0041** (2013.01 - EP US)

Citation (search report)
• [Y] US 5232468 A 19930803 - BROBERG DAVID E [US], et al
• [Y] EP 0905181 A1 19990331 - CIBA GEIGY AG [CH]
• [Y] US 5414149 A 19950509 - GARRETT DENNIS [US], et al
• [Y] US 4751138 A 19880614 - TUMEY MICHAEL L [US], et al

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 SM TR

DOCDB simple family (publication)
WO 2010057075 A2 20100520; WO 2010057075 A3 20100708; AU 2009313814 A1 20100520; AU 2009313814 B2 20130926; BR PI0921157 A2 20190924; CA 2743858 A1 20100520; CN 102272257 A 20111207; EP 2367893 A2 20110928; EP 2367893 A4 20150225; JP 2012509195 A 20120419; KR 101277637 B1 20130625; KR 20110095309 A 20110824; MX 2011005164 A 20110729; US 2010130104 A1 20100527

DOCDB simple family (application)
US 2009064546 W 20091116; AU 2009313814 A 20091116; BR PI0921157 A 20091116; CA 2743858 A 20091116; CN 200980153396 A 20091116; EP 09826893 A 20091116; JP 2011536553 A 20091116; KR 20117013261 A 20091116; MX 2011005164 A 20091116; US 61939409 A 20091116