

Title (en)

INCORPORATING ADDITIVES INTO FIXED ABRASIVE WEBS FOR IMPROVED CMP PERFORMANCE

Title (de)

INTEGRATION VON ZUSÄTZEN IN FIXIERTE SCHLEIFBAHNEN FÜR VERBESSERTE CMP-LEISTUNG

Title (fr)

INCORPORATION D'ADDITIFS DANS DES BANDES ABRASIVES FIXES POUR DE MEILLEURES PERFORMANCES CMP

Publication

EP 2897767 A4 20160727 (EN)

Application

EP 13838975 A 20130917

Priority

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- US 2013060022 W 20130917

Abstract (en)

[origin: WO2014047014A1] A structured abrasive article is provided that has a backing having first and second opposed major surfaces and a structured abrasive layer disposed on and secured to the first major surface of the backing. The structured abrasive layer includes a polymeric binder, abrasive particles dispersed in the binder and an additive dispersed in the binder. The additive provides improved chemical mechanical planarization (CMP) polish performance, including high oxide/nitride selectively, high removal rates, lower nitride loss and improved with-in- wafer non-uniformity (WIWNU).

IPC 8 full level

B24D 3/34 (2006.01); **C09C 1/68** (2006.01); **C09K 3/14** (2006.01)

CPC (source: CN EP US)

B24B 37/245 (2013.01 - CN EP US); **B24D 3/344** (2013.01 - CN EP US); **C09K 3/1436** (2013.01 - CN EP US);
H01L 21/31053 (2013.01 - CN EP US)

Citation (search report)

- [Y] US 2009176443 A1 20090709 - KOLLODGE JEFFREY S [US], et al
- [Y] US 2012094487 A1 20120419 - KRANZ HEATHER K [US], et al
- See references of WO 2014047014A1

Designated contracting state (EPC)

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KR 20150058302 A 20150528; SG 11201502225X A 20150528; TW 201420706 A 20140601; US 2015217424 A1 20150806

DOCDB simple family (application)

US 2013060022 W 20130917; CN 201380049086 A 20130917; EP 13838975 A 20130917; JP 2015533125 A 20130917;
KR 20157009287 A 20130917; SG 11201502225X A 20130917; TW 102133978 A 20130918; US 201314425697 A 20130917