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(71) Applicant: **VERSUM MATERIALS US, LLC** [US/US];
8555 South River Parkway, Tempe, Arizona 085284 (US).

(72) Inventors: **GAN, Lu**; c/o Versum Materials US, LLC, 8555
South River Parkway, Tempe, Arizona 085284 (US). **SCH-
LUETER, James Allen**; c/o Versum Materials US, LLC,

8555 South River Parkway, Tempe, Arizona 85284 (US).
TAMBOLI, Dnyanesh Chandrakant; c/o Versum Mate-
rials US, LLC, 8555 South River Parkway, Tempe, Arizona
085284 (US).

(74) Agent: **YANG, Lina**; Versum Materials US, LLC, 7350
Tilghman Street, Suite 104, Allentown, Pennsylvania 18106
(US).

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(54) Title: WITH-IN DIE NON-UNIFORMITIES (WID-NU) IN PLANARIZATION

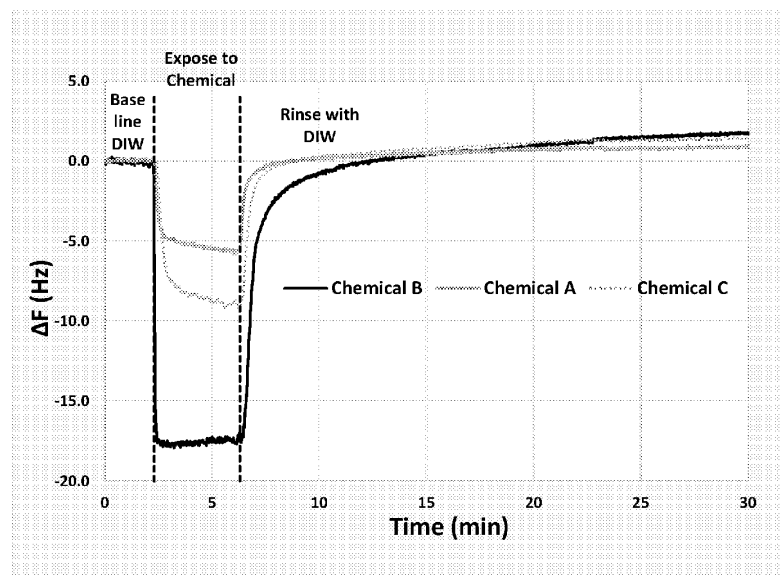


Figure 1

(57) Abstract: Present invention provides Chemical Mechanical Planarization (CMP) polishing compositions for barrier layer applications, specifically for improving With-In Die Non-Uniformities (WID-NU). The CMP polishing compositions contain abrasive at a concentration equal and/or greater than () 2.0 wt. %; a planarization agent selected from the group consisting of ethylene oxide, propylene oxide, butylene oxide, polymers thereof, derivatives thereof, and combinations thereof, wherein the polymers have a molecular weight between 10 Dalton to 5 million Dalton, preferably 50 Dalton to 1 million Dalton; corrosion inhibitor; water soluble solvent; and optionally, rate boosting agent, pH adjusting agent, oxidizing agent, and chelator.

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