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(54) Title: PAD-IN-A-BOTTLE (PIB) TECHNOLOGY FOR COPPER BARRIER SLURRIES

(57) Abstract: A novel pad-in-a-bottle (PIB) technology for advanced chemical-mechanical planarization (CMP) copper barrier CMP compositions, systems and processes has been disclosed for use with polyurethane-based polishing pads having a plurality of asperities. The CMP composition comprises abrasives, polyurethane beads, and surfactant. The polishing pad lifetime increasing is achieved using PIB-type Cu barrier CMP polishing composition.

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