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(54) Title: PEROXIDE ACTIVATED OXOMETALATE BASED FORMULATIONS FOR REMOVAL OF ETCH RESIDUE

(57) Abstract: Highly alkaline, aqueous formulations including (a) water, (b) at least one metal ion-free base at sufficient amounts to produce a final formulation alkaline pH, (c) from about 0.01% to about 5% by weight (expressed as % SiO₂) of at least one water-soluble metal ion-free silicate corrosion inhibitors; (d) from about 0.01% to about 10% by weight of at least one metal chelating agent, and (e) from more than 0 to about 2.0% by weight of at least one oxymetalate are provided in accordance with this invention. Such formulations are combined with a peroxide such that a peroxyoxymetalate is formed to produce form a microelectronic cleaning composition. Used to remove contaminants and residue from microelectronic devices, such as microelectronic substrates.



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