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(54) **Title:** COMPOSITIONS AND METHODS FOR SELECTIVELY ETCHING TITANIUM NITRIDE

(57) **Abstract:** Compositions useful for the selective removal of titanium nitride and/or photoresist etch residue materials relative to metal conducting, e.g., cobalt, ruthenium and copper, and insulating materials from a microelectronic device having same thereon. The removal compositions contain at least one oxidant and one etchant, may contain various corrosion inhibitors to ensure selectivity.

