

ABSTRACT

METHOD FOR STRIPPING COPPER IN DAMASCENE INTERCONNECTS

An inexpensive and safe copper removal method in the fabrication of integrated circuits is described. Copper is stripped or removed by a chemical mixture comprising an ammonium salt, an amine, and water. The rate of copper stripping can be controlled by varying the concentration of the ammonium salt component and the amount of water in the mixture. Also a novel chemical mixture for stripping copper and removing copper contamination is provided. The novel chemical mixture for removing or stripping copper comprises an ammonium salt, an amine, and water. For example, the novel chemical mixture may comprise ammonium fluoride, water, and ethylenediamine in a ratio of 1:1:1.

(FIGURE 1 IS SUGGESTED FOR PUBLICATION)