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HIGH LASER ABSORPTION COPPER FUSE AND METHOD FOR MAKING THE SAME



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Abstract

A high laser absorption copper fuse can minimize the laser energy needed to delete the fuse portion of the conductor. This type of fuse structure allows for formation of copper fuses that can be deleted with appreciably less incident energy.

A metal wiring line contains a fuse link segment wherein the fuse link segment is composed of a stack of at least two metals. The underlayer material (24) in the stack of metals is the primary electrical copper conductor, and the overlayer metal (26), has predetermined thickness and optical properties chosen such that the combination of the overlayer metal (26) with the underlayer metal (24) provides for high absorption characteristics to incident infrared energy.

Fabrication methods are presented.

Fig 2E