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Method and Apparatus for Electroplating Alloy Films

Abstract

A compositionally modulated material electroplated film is deposited by using at least two source metal anodes (116,118) in an electroplating apparatus, and changing at least one power setting of an electroplating power supply (106,108). In order to obtain sharp boundaries between successive layers of the film, voltage can be switched from an electroplating substrate (122) to a dummy electrode (124) immediately before the power setting is changed, in order to allow the electrolyte to equilibrate at a new set of solute concentrations, before electroplating on the substrate (122) is recommenced.

FIG 1.