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(54) Title: METHODS AND APPARATUS FOR MATERIAL DEPOSITION USING PRIMER

(57) Abstract

A liquid primer is misted, flowed into a deposition chamber (2) and deposited on a substrate (5). A liquid precursor (64) is misted, flowed into a deposition chamber (2) and deposited on the substrate (5). The primer and precursor are dried to form a solid thin film, which is then annealed to form a part of an electronic component (1112) in an integrated circuit (1110), such as the dielectric (1130) in a memory cell. The primer is a solvent, and the precursor includes a metal carboxylate, a metal alkoxide, or a metal alkoxycarboxylate in a precursor solvent. Preferably, the primer and the precursor solvent are the same solvent, such as 2-methodyethanol, xylenes, n-butyl acetate or hexymethyl-disilazane.

