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(54) Title: ENHANCED PROCESSING OF PERFORMANCE FILMS USING HIGH-DIFFUSIVITY PENETRANTS

(57) Abstract: A method of reducing undesired topographic features, increasing film density, and/or increasing adhesion to an underlying substrate in a polymer film formed on a microelectronic substrate, comprises: (a) providing a microelectronic substrate, the substrate having a polymer film deposited thereon; (b) contacting the substrate to carbon dioxide (optionally containing additional ingredients such as cosolvents or chemical intermediates); and (c) elevating the pressure of the carbon dioxide to plasticize the polymer film and reduce undesired topographic features, increase film density, and/or increase adhesion of the film to the underlying substrate.



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