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(54) Title: NANOSHAPE PATTERNING TECHNIQUES OF FUNCTIONAL NANOSTRUCTURES

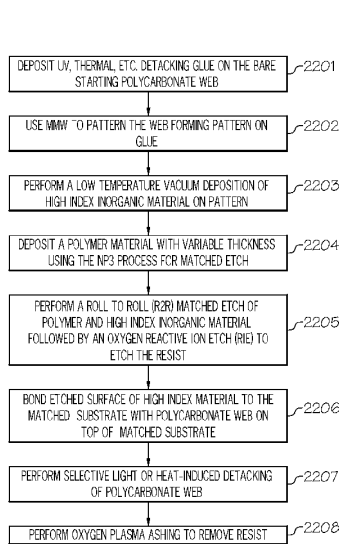


FIG. 22

(57) Abstract: A method for fabricating functional optical components. A detachable adhesive layer is deposited on an intermediate substrate. A curable liquid is deposited onto the detachable adhesive layer on the intermediate substrate. An imprint template is used to transfer patterns onto the curable liquid followed by curing thereby forming an imprinted patterned material on the intermediate substrate. A layer of functional material is deposited on the imprinted patterned material and a polymer is added on top of functional layer. A correlated etch of the polymer layer and the functional material layer is then performed thereby forming an etched functional material surface. The etched functional material surface is bonded to the substrate. The imprinted patterned material is then detached from the intermediate substrate at the adhesive layer.

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