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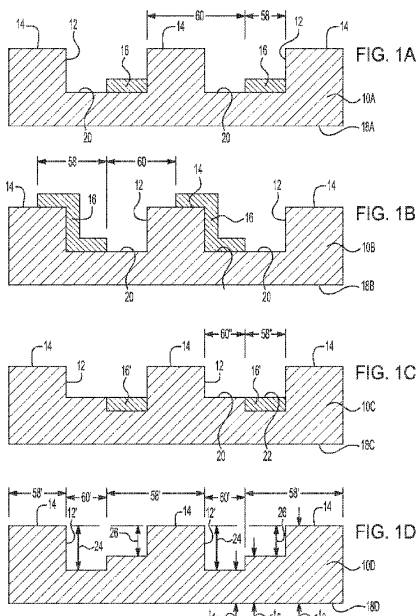
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(54) Title: FLOW CELL SURFACE PATTERNING



(57) Abstract: A polymeric hydrogel is applied to a surface of a substrate including depressions separated by interstitial regions. Each depression includes a UV blocking layer positioned at a first region, and a second region that is transparent to UV and adjacent to the first region. Before or after the hydrogel is applied, a primer set is grafted to the hydrogel. The primer set includes 3' blocked uncleavable first and second pre-primers. The hydrogel or grafted layer is removed from the interstitial regions. At a first predetermined region of the grafted layer within the second region: the first pre-primers are altered to introduce cleavable first primers; and the second pre-primers are altered to introduce uncleavable second primers. At a second predetermined region of the grafted layer within the first region: the first pre-primers are altered to introduce uncleavable first primers; and the second pre-primers are blocked to introduce cleavable second primers.

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