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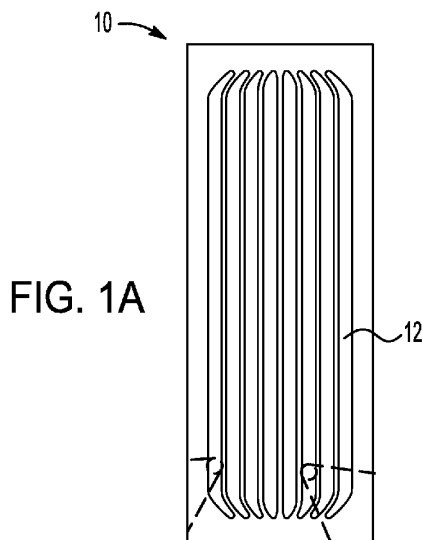
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- (54) Title: FLOW CELLS WITH A PATTERNED SUBSTRATE



(57) Abstract: An example of a flow cell includes a substrate; a plurality of reactive regions spatially separated from one another across the substrate; and a plurality of independently removable coatings respectively positioned over each of the plurality of reactive regions. Each of the plurality of reactive regions includes a polymeric hydrogel layer; and a reactive entity attached to the polymeric hydrogel layer. At least one of the independently removable coatings is a composite that includes a thermo-responsive polymer and a photo-thermal additive.