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## (54) Title: SYSTEMS AND METHODS FOR CONTAINING BIOLOGICAL SAMPLES

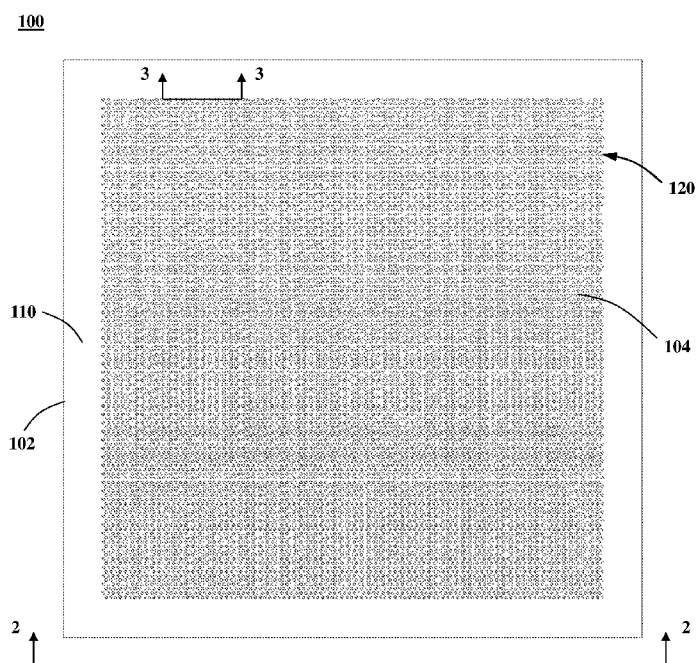


FIG. 1

(57) Abstract: An article for holding a plurality of biological samples includes a substrate comprising a first surface and an opposing second surface and a plurality of reaction sites in the substrate. Each of the reaction sites extends from an opening in the first surface to an opening in the second surface. The reaction sites comprise a hexagonal shape and are configured to provide sufficient surface tension by capillary action to hold respective biological samples. The reaction sites have a density over at least a portion of the surfaces that is at least 170 holes per square millimeter. At least one of the surfaces may have a surface roughness characterized by an arithmetic average roughness (Ra) that is less than or equal to 5 nanometers.



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