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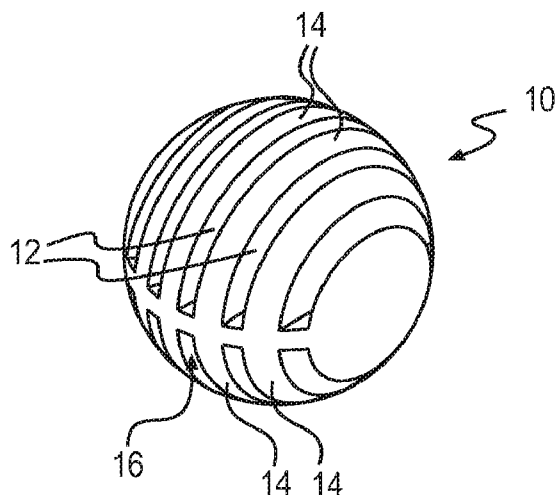


FIG. 1A

(57) Abstract: Devices and methods for culture of cells are provided. The devices can comprise a three-dimensional body having multiple two-dimensional surfaces extending inwardly from a periphery of the three-dimensional body towards an interior of the three-dimensional body, wherein the multiple two-dimensional surfaces are configured to support monolayer growth of eukaryotic cells over at least a majority of or all of the surface area of the multiple two-dimensional surfaces.