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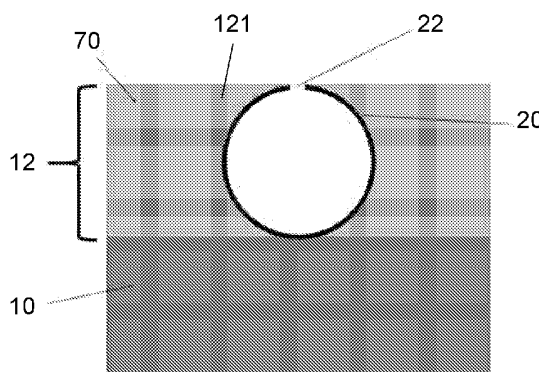


FIG. 1

(57) Abstract: An ultra-low profile aerostatic bearing and the method of manufacturing the same is disclosed. The aerostatic bearing comprises a substrate as a bearing housing, a hypodermic tubing and a plurality of orifices on the tubing. The method of manufacturing the aerostatic bearing includes the steps of forming the bearing housing and the hypodermic tubing and bonding the hypodermic tubing and the substrate together, and applying an encapsulation substance that encases the hypodermic tubing network and covers the substrate surface to obtain geometric accuracy and surface finish of the bearing surface by replicating the geometry and surface finish of a molding master.

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