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(54) Title: CELL CULTURE MICRODEVICE

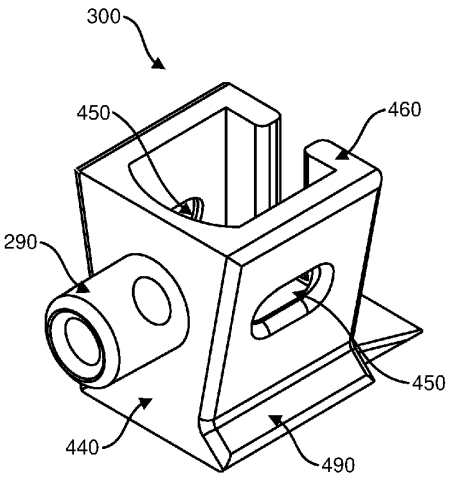


FIG. 9a

(57) Abstract: A cell culture microdevice for maintaining and culturing a cell therein comprising a cell culture unit having at least a first cell carrier unit defining a cell culture chamber formed therein, the first cell carrier unit formed from at least, a chamber base shaped to support the cell thereon, and one or more chamber walls having one or more chamber wall surfaces enclosing the cell culture chamber about a chamber boundary, the first cell carrier unit further providing a guiding surface to guide instruments or fluids into the cell culture chamber located at an aperture through a chamber wall, wherein the cell culture microdevice is configured at a scale to substantially enclose a single cell or cell mass therein. Embodiments of the cell culture microdevice may be suitable for in vitro fertilisation procedures and drug efficacy testing.

WO 2021/108860 A1