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(54) Title: CELL CULTIVATION METHODOLOGY

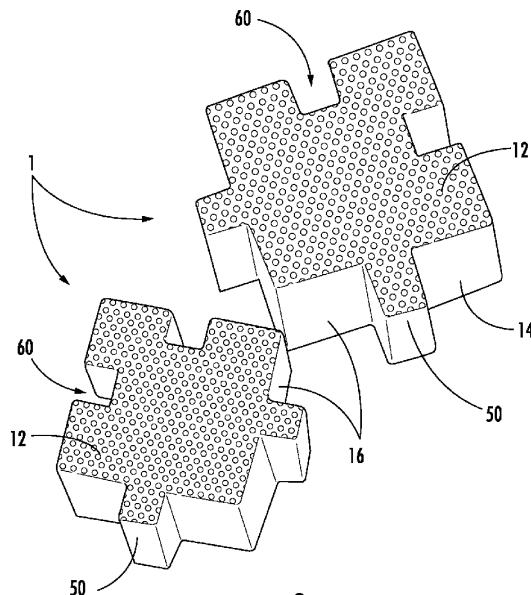


FIG. 2

(57) Abstract: Method of cultivating cells utilizing one or more interlocking porous hydrogel block (IPHB) as a scaffolding for cell growth and propagation are provided. The IPHB(s) include a continuous polymeric matrix material and a network of microporous channels and/or chambers extending throughout the continuous polymeric matrix material. The methods include seeding a first IPHB with one or more cells of interest, feeding the one or more cells of interest with a first culture media, and allowing the one or more cells of interest to propagate throughout the network of microporous channels and/or chambers, expanding the initial scaffolding by interlocking a second IPHB to the first IPHB, and allowing the one or more cells of interest to propagate from the first IPHB into the second IPHB, and feeding the one or more cells of interest located inside the second IPHB with the first culture media or a second culture media.

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