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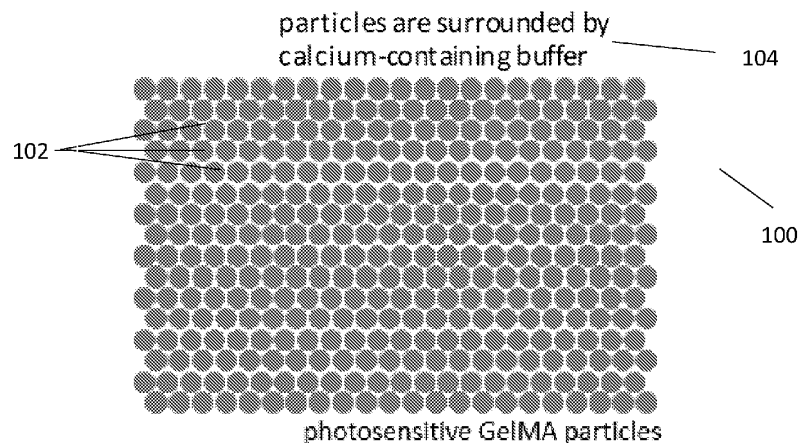


FIG. 1A

(57) Abstract: There is provided a bioink for bioprinting a porous three-dimensional hydrogel structure, the bioink comprising an aqueous medium; and granular crosslinkable hydrogel precursor particles suspended in the aqueous medium, wherein the granular crosslinkable hydrogel precursor particles have an average size of from 100 microns to 500 microns, and wherein under suitable crosslinking conditions, the granular crosslinkable hydrogel precursor particles crosslink and adhere to one another, to form the porous three-dimensional hydrogel structure having pore diameters in the range of from 20 microns to 200 microns. There is also provided a method of forming a porous three-dimensional hydrogel structure using the bioink disclosed herein and a porous three-dimensional hydrogel structure obtained from said method.

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