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(54) **CROSSLINKING METHODS AND APPLICATIONS THEREOF**

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(58) **Field of Classification Search**

None

See application file for complete search history.

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(57) **ABSTRACT**

Some aspects of this disclosure relate to a method for forming a biomaterial in situ comprising: combining a solution of a crosslinker in a water soluble organic solvent with a precursor to covalently crosslink the precursor to form a crosslinked gel, with the crosslinker comprising a plurality of first functional groups and the precursor comprising a plurality of second functional groups, with the first functional groups chemically reacting with the second functional groups in situ to form covalent bonds and thereby form the crosslinked gel.

19 Claims, 7 Drawing Sheets