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(54) Title: ADDITIVE MANUFACTURING SYSTEM, METHODS OF FORMING THE SAME AND OF FORMING A COMPOSITE STRUCTURE

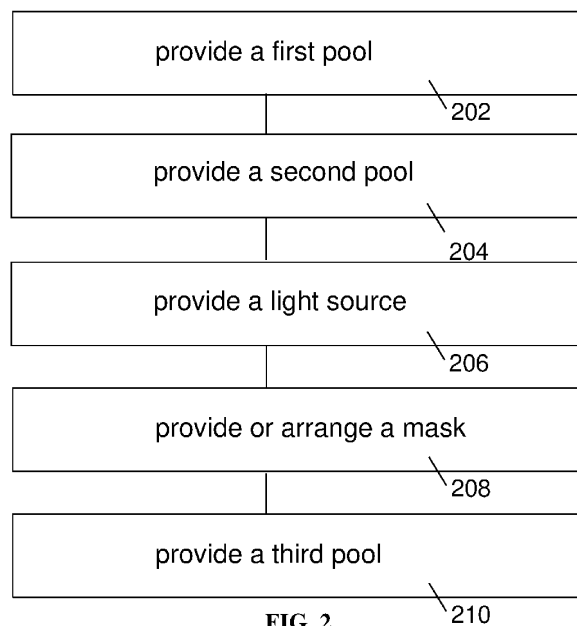


FIG. 2

(57) Abstract: Various embodiments may provide an additive manufacturing system for forming a composite structure. The system may include a first pool including an active solution to form a first printed portion of a workpiece, the active solution including a solvent, an activation seed soluble in the solvent, and a light curable resin. The system may also include a second pool including a further light curable resin to form a second printed portion of the workpiece, and a light source configured to provide light. The system may further include a mask configured to be arranged such that the light provided by the light source is irradiated onto the workpiece through the mask, and a third pool including a cleaning solution or mixture for cleaning the workpiece. The first printed portion including the activation seed may be configured to form a metallic layer via an electroless deposition process, thereby forming the composite structure.

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