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(54) Title: MAGNETICALLY ASSISTED DROP-ON-DEMAND 3D PRINTING OF MICROSTRUCTURES

(57) Abstract: A method of 3D printing includes printing a droplet of ink with a plurality of magnetically responsive microplatelets in a liquid, subjecting the printed droplet of ink to a rotating magnetic field; and providing a period of drying in which at least a portion of the liquid is evaporated from the printed droplet of ink to form an at least partially dried droplet. The at least partially dried droplet is characterized by the plurality of microplatelets being in alignment with one another, in which the plurality of microplatelets in alignment define a corresponding plurality of at least partially un-filled gaps between the plurality of microplatelets.

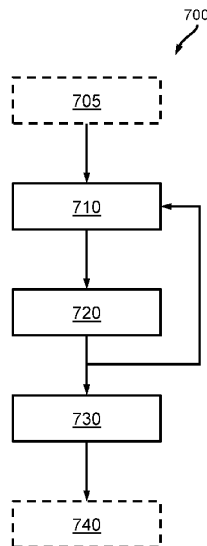


FIG. 3

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