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(71) Applicant: SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN [SG/SG]; 8 Somapah Road, Singapore 487372 (SG).

(72) Inventors: NG, Jian Yi Mervin; c/o Singapore University of Technology and Design, 8 Somapah Road, Singapore 487372 (SG). HASHIMOTO, Michinao; c/o Singapore University of Technology and Design, 8 Somapah Road, Singapore 487372 (SG).

(74) Agent: VIERING, JENTSCHURA & PARTNER LLP; P.O. Box 1088, Rochor Post Office, Rochor Road, Singapore 911833 (SG).

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(54) Title: METHOD AND SYSTEM FOR FABRICATING A POROUS STRUCTURE BASED ON EXTRUSION-BASED ADDITIVE MANUFACTURING, AND POROUS STRUCTURE THEREOF

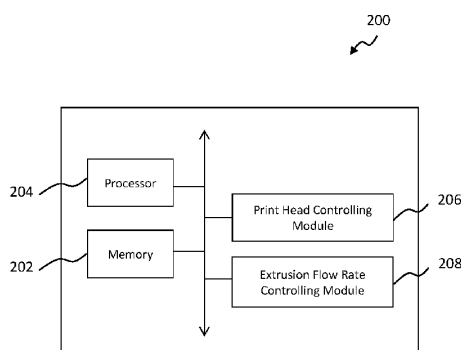


FIG. 2

(57) Abstract: A method of fabricating a porous structure based on extrusion-based additive manufacturing is provided. The method includes: controlling a print head of an extruder to move along a print path for extruding a material along the print path on a print bed for fabricating the porous structure; and controlling an extrusion flow rate of the extruder, while the print head is being controlled to move along the print path for extruding the material, for forming a plurality of pores of the porous structure. In particular, for each pore of the plurality of pores, the above-mentioned controlling the extrusion flow rate includes adjusting the extrusion flow rate with respect to a first section of the print path to form a first extruded material portion along the first section of the print path and adjusting the extrusion flow rate with respect to a second section of the print path to form a second extruded material portion along the second section of the print path, the second extruded material portion formed being adjacent to and opposing the first extruded material portion formed, such that a space is formed therebetween constituting the pore. A corresponding system for fabricating a porous structure is also provided, as well as the porous structure fabricated.

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