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- (71) **Applicants:** SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN [SG/SG]; 8 Somapah Road, Singapore 487372 (SG). NANYANG TECHNOLOGICAL UNIVERSITY [SG/SG]; 50 Nanyang Avenue, Singapore 639798 (SG). ALEXANDRA HEALTH PTE LTD [SG/SG]; 90 Yishun Central, Khoo Teck Puat Hospital, Singapore 768828 (SG).
- (72) **Inventors:** CHUA, Chee Kai; c/o Singapore University of Technology and Design, 8 Somapah Road, Singapore 487372 (SG). WONG, Hooi Chuan Gladys; c/o Alexandra Health Pte Ltd, 90 Yishun Central, Khoo Teck Puat Hospital, Singapore 768828 (SG). ZHANG, Yi; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG). AAKANKSHA, Pant; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG). AN, Jia; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (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:** 3D FOOD PRINTING OF FRESH VEGETABLES USING FOOD HYDROCOLLOIDS FOR DYSPHAGIC PATIENTS

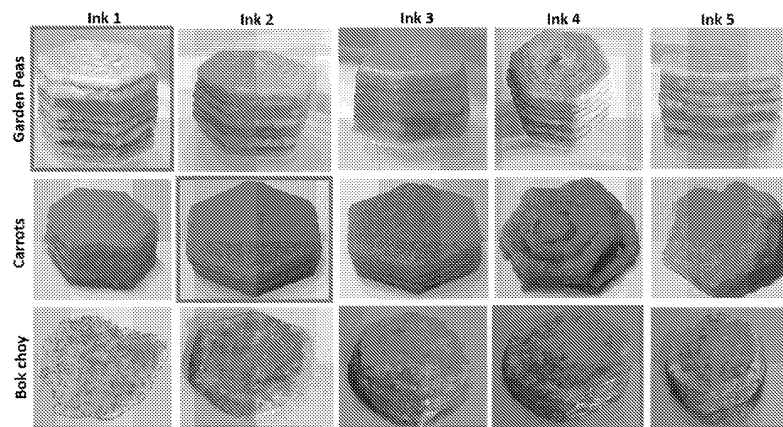


FIG. 2A

(57) **Abstract:** Herein discloses includes an edible and 3D printable plant-based ink composition for consumption by dysphagic patients which includes a vegetable puree and/or a fruit puree, wherein the vegetable puree and the fruit puree are not freeze-dried and contain one or more hydrocolloids, or a vegetable puree and/or a fruit puree, wherein the vegetable puree and the fruit puree are not freeze-dried, wherein each of the one or more hydrocolloids is present in an amount of 10 wt% or less based on the vegetable puree and/or the fruit puree. A method of forming the edible and 3D printable plant-based ink composition is also disclosed. The method includes providing a puree of a vegetable and/or a fruit, sieving the puree to remove any solid particles which blocks a nozzle of a 3D printer, and cooling the puree to room temperature for 3D printing.

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