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(71) Applicant: **NANYANG TECHNOLOGICAL UNIVERSITY** [SG/SG]; 50 Nanyang Avenue, Singapore 639798 (SG).

(72) Inventors: **LI, Jianping**; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG). **XIE, Lihua**; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG). **YUAN, Shenghai**; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG).

(74) Agent: **CSASIA IP PTE. LTD.**; 47 Scotts Road, #13-03 Goldbell Towers, Singapore 228233 (SG).

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(54) Title: AN OPTIMALITY-AWARE LIDAR INERTIAL ODOMETRY MODULE WITH HYBRID CONTINUOUS TIME OPTIMIZATION

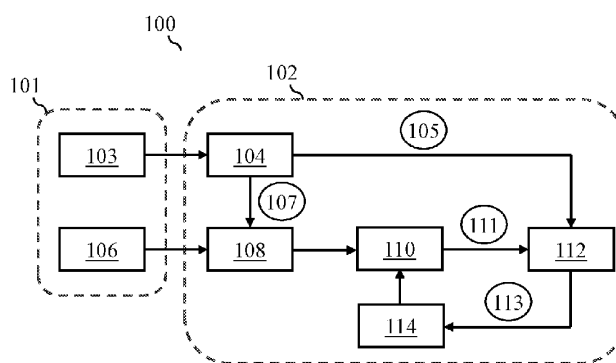


FIGURE 1

(57) Abstract: This document describes a LiDAR inertial odometry module that employs a hybrid continuous time optimization technique to mitigate errors introduced by human motion when low-cost and compact wearable mapping systems are used to implement LiDAR inertial odometry methods for collecting LiDAR-based 3D maps of structures and complex environments.