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- (71) **Applicant:** AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH [SG/SG]; 1 Fusionopolis Way, #20-10 Connexis North Tower, Singapore 138632 (SG).
- (72) **Inventors:** LEONG, Jiacheng, Andrew; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632 (SG). ADIWAHONO, Albertus, Hendrawan; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632 (SG). YOU, Yangwei; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632 (SG).

pore 138632 (SG). CHUAH, Meng Yee; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632 (SG). CHEN, Tai Pang; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632 (SG). CHAN, Jian Le; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632 (SG). CHAN, Chee Leong, Raymond; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632 (SG). NG, Kam Pheng; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632 (SG). WAN, Kong Wah; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632 (SG). YAU, Wei Yun; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632 (SG).

- (74) **Agent:** POH, Chee Kian, Daniel; Marks & Clerk Singapore LLP, Tanjong Pagar Post Office, P.O. Box 636, Singapore 910816 (SG).

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- (54) **Title:** METHOD AND SYSTEM FOR NAVIGATING A ROBOT

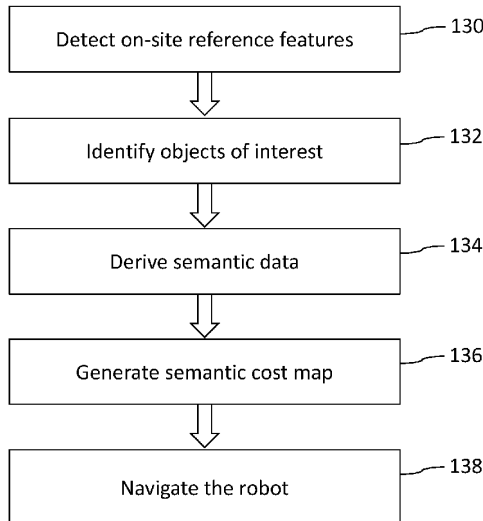


Fig. 3

- (57) **Abstract:** A method and system for navigating a robot 100 are provided herein. In an embodiment, the method comprises: detecting on-site reference features of the robot's location when the robot is traversing in an environment; identifying objects of interest 180 from the detected on-site reference features; deriving a semantic data for each object of interest 180 from the on-site reference features; generating a semantic cost map 166 based on the semantic data of the objects of interest 180, the semantic cost map 166 representing cost of traversing in the environment; and navigating the robot 100 based on the semantic cost map 166.

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