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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: **LI, Jun**; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis South Tower, Singapore 138632 (SG). **MUKHTAR, Syed Zeeshan Ahmed**; 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: DETECTION METHOD AND SYSTEM FOR A MOBILE OBJECT

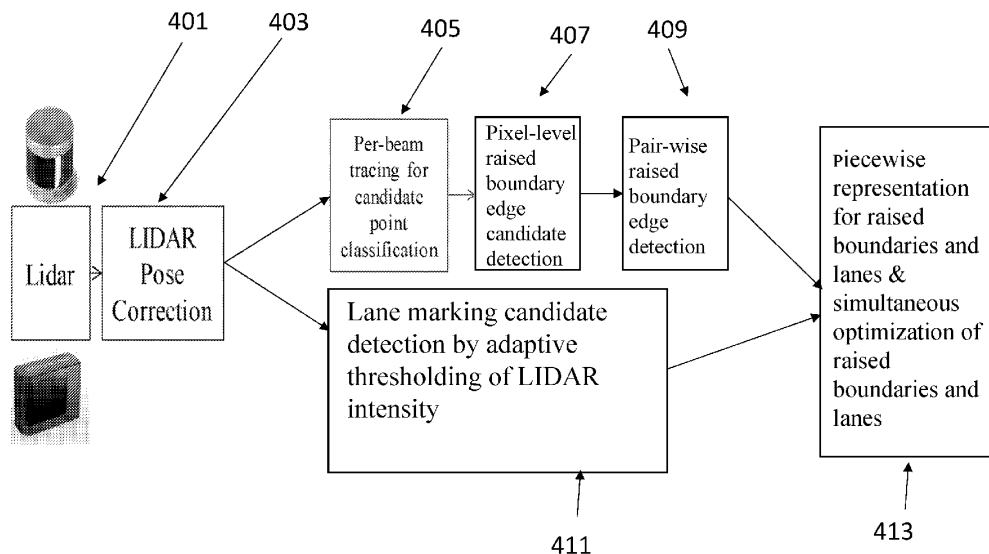


Fig. 4

(57) Abstract: A method of detecting a raised boundary of a routeway for a mobile object 100 is disclosed herein. In a specific embodiment, the method comprises receiving LiDAR data of an environment of the mobile object captured by a LiDAR device 101, the LiDAR data comprising a plurality of beams, each beam comprising a plurality of projected points each captured according to a common pitch angle of the LiDAR device 101; identifying a plurality of break points, each break point of the plurality of break points being in a linearity 501, 1501, 2501 of consecutive projected points of at least one beam from the plurality of beams; and locating edge points of the raised boundary from the plurality of identified break points. A system for detecting a raised boundary of a routeway for a mobile object 100 is also disclosed herein.

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