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(71) Applicant: **DEKA PRODUCTS LIMITED PART-
NERSHIP** [US/US]; 340 Commercial Street, Manchester,
New Hampshire 03101 (US).

(72) Inventors: **CHANG, Yu-Hsuan**; 111 Saratoga Avenue,
Apt. 2213, Santa Clara, California 95051 (US). **PATEL,
Kunj P.**; 1200 Elm Street, Unit 414, Manchester, New
Hampshire 03101 (US). **BOGGAVARAPU, Sai Ravi Te-**

ja; 120 Commerce Way, Apt. 607, Woburn, Massachusetts
01801 (US).

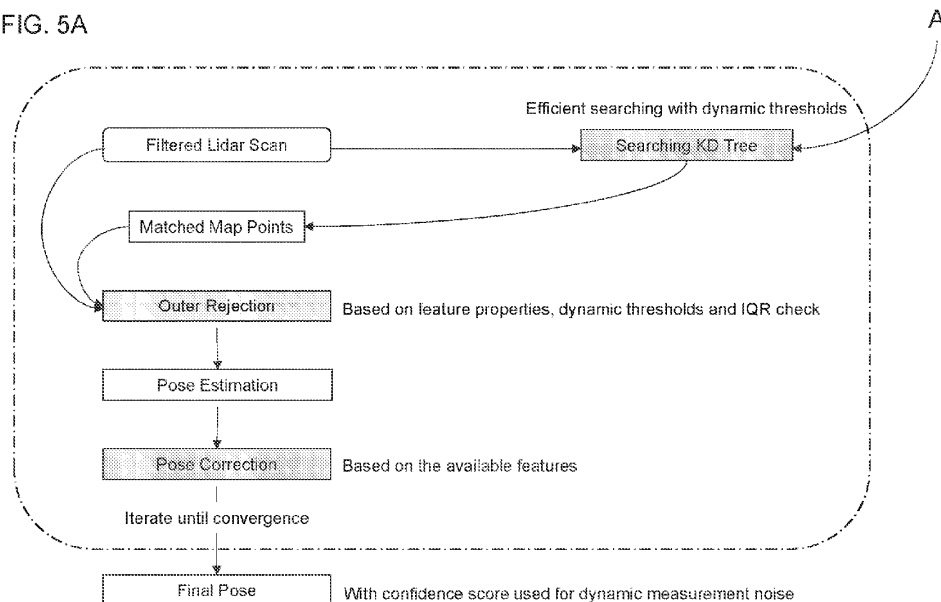
(74) Agent: **CUNNINGHAM, Reid Knott** et al.; 340 Commer-
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(54) Title: SYSTEM AND METHOD FOR LOCALIZING AN AUTONOMOUS VEHICLE

FIG. 5A



(57) Abstract: A system and method for localizing an autonomous vehicle using mapped and real-time data. Mapped data and real-time data are scan matched. Characteristics of the autonomous vehicle such as, but not limited to, linear and angular velocities, heading, and motion prediction are provided to a Bayesian estimation algorithm, and a final pose is computed.

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