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- (71) **Applicant:** **SOMEONE IS ME, LLC** [US/US]; 2534 Hedgewood Ln, Allen, TX 75013 (US).
- (72) **Inventors; and**
- (71) **Applicants:** **CHAUHAN, Sanket, Singh** [US/US]; 2534 Hedgewood Ln, Allen, TX 75013 (US). **DAS, Aditya,**
- Narayan [US/US]; 2623 Fountain Dr, Irving, TX 75063 (US).
- (74) **Agent:** **BLACKSTONE, Jason;** 447 Ridgemoor, Heath, TX 75126 (US).
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(54) **Title:** IMAGING SYSTEM FOR AUTOMATED INTUBATION

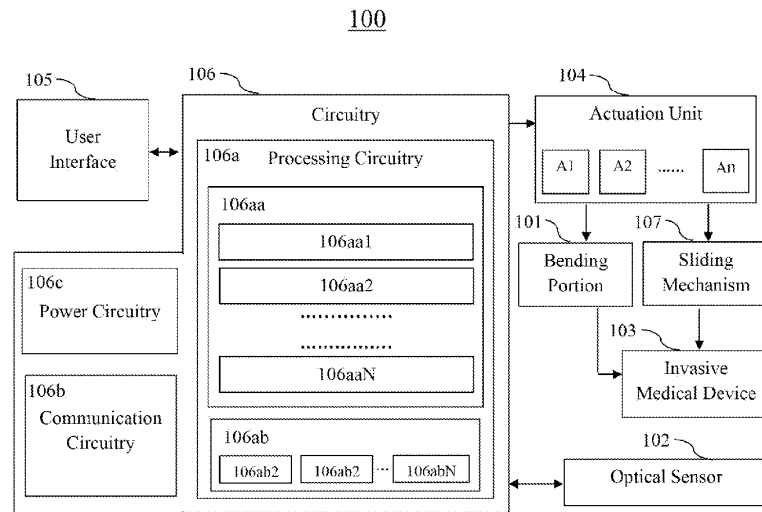


FIG. 1

(57) **Abstract:** A system, method and apparatus to automatically perform endotracheal intubation in a patient comprising, inserting a blade inside the upper airway of the patient to retract an anatomical structure; inserting a bending portion and a tube arranged on the bending portion inside the airway of the patient; collecting airway data using at least one imaging sensor arranged on the bending portion; communicating collected airway data to a processing circuitry; predicting an intended path for insertion of the tube and generating control signals using the processing circuitry, wherein the intended path is predicted based on at least one anatomical structure recognized by the processing circuitry using the collected airway data; displaying an intended path via a user interface to display at least one intended path to an operator and also allow the operator to select an intended path; and communicating the control signals generated by the processing circuitry to at least one actuation unit to actuate the three-dimensional movement of the tube.

[Continued on next page]

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- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
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