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(54) Title: SYSTEM AND METHOD FOR AUTOMATED NAVIGATION AND CONTROL OF AN ENDOSCOPIC SURGICAL DEVICE

(57) Abstract: A surgical device comprising a flexible part circularly winded in a housing is provided. The surgical device comprises a processor configured to predict an intended path for the distal end and to generate control signals. The intended path is predicted based on at least one anatomical structure recognized using data received from one or more sensors. An actuation unit of the surgical device actuates a three-dimensional movement of the distal end along the intended path based on the control signals.



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