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(54) Title: INSERTION UNIT FOR MEDICAL INSTRUMENTS AND AN INTUBATION SYSTEM THEREOF

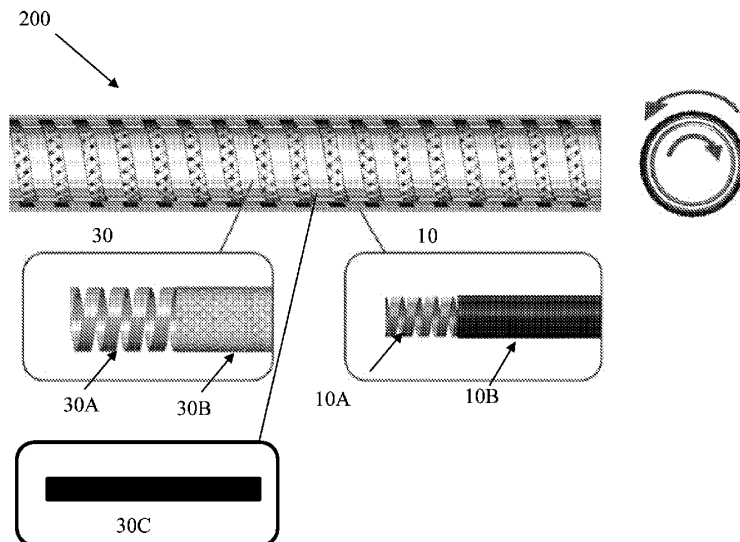


Fig. 2B

(57) Abstract: The present invention discloses an insertion unit, a bending section and an intubation system for use in a body lumen of a patient. The insertion unit comprises an inner elongated shaft structure being capable of torque transmission around its length axis and having flexibility properties and an outer elongated shaft structure at least partially surrounding the inner elongated shaft structure and having elastic and flexibility properties and a continuous and flat outer surface. The inner elongated shaft structure has a distal end, and is capable of being connected to an optical head. The insertion unit is configured to transmit pushing, steering and rotational forces along a length of the insertion unit. The integral insertion unit is configured and operable to bend the distal tip in all directions and to fully rotate the distal tip.

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