



## Title of Invention

(Below is limited to 1-page only; be careful not to disclose vital technology content.

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The Department of Pediatrics of the National Taiwan University Hospital

### Experience:

2005- 2012, Clinical Assistant Professor, Division of Neonatology, Department of Medical Genetics & Pediatrics, National Taiwan University Hospital, Taipei, Taiwan, ROC

1997- 1999, Fellowship in Neonatology, Department of Pediatrics, National Taiwan University Hospital, Taipei, Taiwan, ROC

1994- 1997, Resident , Department of Pediatrics, National Taiwan University Hospital, Taipei, Taiwan, ROC

### Market Needs:

For products with image-assisted intubation, there are hundreds of them, such as Olympus PortaView, Video laryngoscopes GlideScope, Ambu King Vision, KARL STORZ C-MAC®, etc., Ambu guided aScope, and Astra's Trachway. But the above manufacturers do not currently have products related to this patent, and there is no optimization for the needs of newborns' respiratory tracts. Cook Medical and InterGuide are still widely used as the medical devices of endotracheal tube replacement for newborns. The module development of this system can extent to other micro-cavity-detection systems, such as spinal endoscopy, arthroscopy and so on.

### Our Technology:

This invention provides a micro image connecting device with a guiding function, which is inserted into a tracheal tube disposed in a human trachea, including a camera tube; a flexible printed circuit board, which is attached to one side of the tube; and an image capturing structure, which is on the opposite side of the tube, and electrically connecting the flexible printed circuit board through conductors. Wherein, the micro image connecting device is inserted into the trachea of the human body through the tracheal tube for image capturing. When the tracheal tube is needed to be replaced, the camera tube is left in the trachea of the human body; the original tracheal tube is taken out, and the new tracheal tube is guided through the camera tube to be partially positioned within the trachea of the human body.

### Strength:

This innovative patent is about a micro image connecting device with a guiding function, so that the original tracheal tube guided by the flexible camera tube, extracted from the oral cavity and separated from the tube. Through the guide and clear image of the device, install a new tracheal tube into the human trachea for easy replacement.

### Competing Products:

Olympus PortaView 、 Video laryngoscopes GlideScope 、 Ambu King Vision 、 KARL STORZ C-MAC® 、 Ambu aScope 、 Trachway

### Intellectual Properties:

### Contact (do not need to fill out):

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