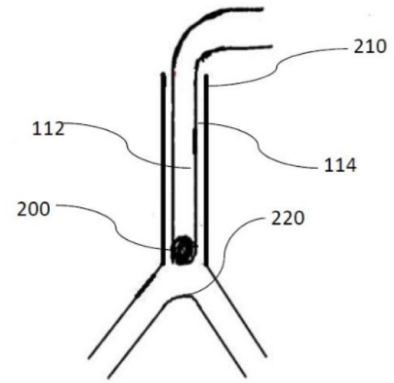


**GRANTED****(IN507013)**

## An endotracheal tube for measuring endotracheal pressure



### NEED

Monitoring endotracheal pressure in patients is vital for ensuring proper ventilation. Existing systems may lack real-time, precise pressure readings, leading to improper care. A more accurate method is needed for patient safety.

### TECHNOLOGY OVERVIEW

This endotracheal tube includes an integrated pressure sensor for continuous monitoring of the endotracheal pressure. It utilizes MEMS technology to provide real-time, accurate data sent to a ventilator. The design ensures reliable pressure monitoring during ventilation.

### TECHNOLOGY KEY FEATURES

Integrated MEMS pressure sensor, real-time data transmission to ventilators, optimized tube design with embedded groove for wire management, and polymer encapsulation for durability and precision.

[Read more here](#)

### MARKET ANALYSIS

The global market for respiratory devices is expected to grow at a CAGR of 6.5%, reaching \$24.7B by 2033 (source: MarketsandMarkets). Rising respiratory diseases, aging populations, and the need for more efficient patient monitoring drive growth.

### Target Industries

1) Medical device manufacturers focusing on respiratory solutions, 2) Healthcare providers using ventilator systems, 3) Hospitals adopting advanced patient monitoring technologies.

### AT A GLANCE

- SDG 3 (Good Health and Well-being), SDG 9 (Industry, Innovation, and Infrastructure), SDG 10 (Reduced Inequality)

Technology is available for licensing/ co-development.

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