

# Medical Material Delivery Device

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## Abstract

Delivering medical materials efficiently and securely during procedures is a critical challenge in healthcare. Existing methods, such as **manual pressure, intra-vessel anchors, and external plugs**, have limitations, including **prolonged duration, patient discomfort, and inconsistent effectiveness**. This invention introduces a **medical material delivery device** designed for **easy, quick, less painful, and secure** material delivery. The device features an **expandable member that bursts or leaks** to release therapeutic agents, reducing procedure time and improving patient safety.

## Introduction

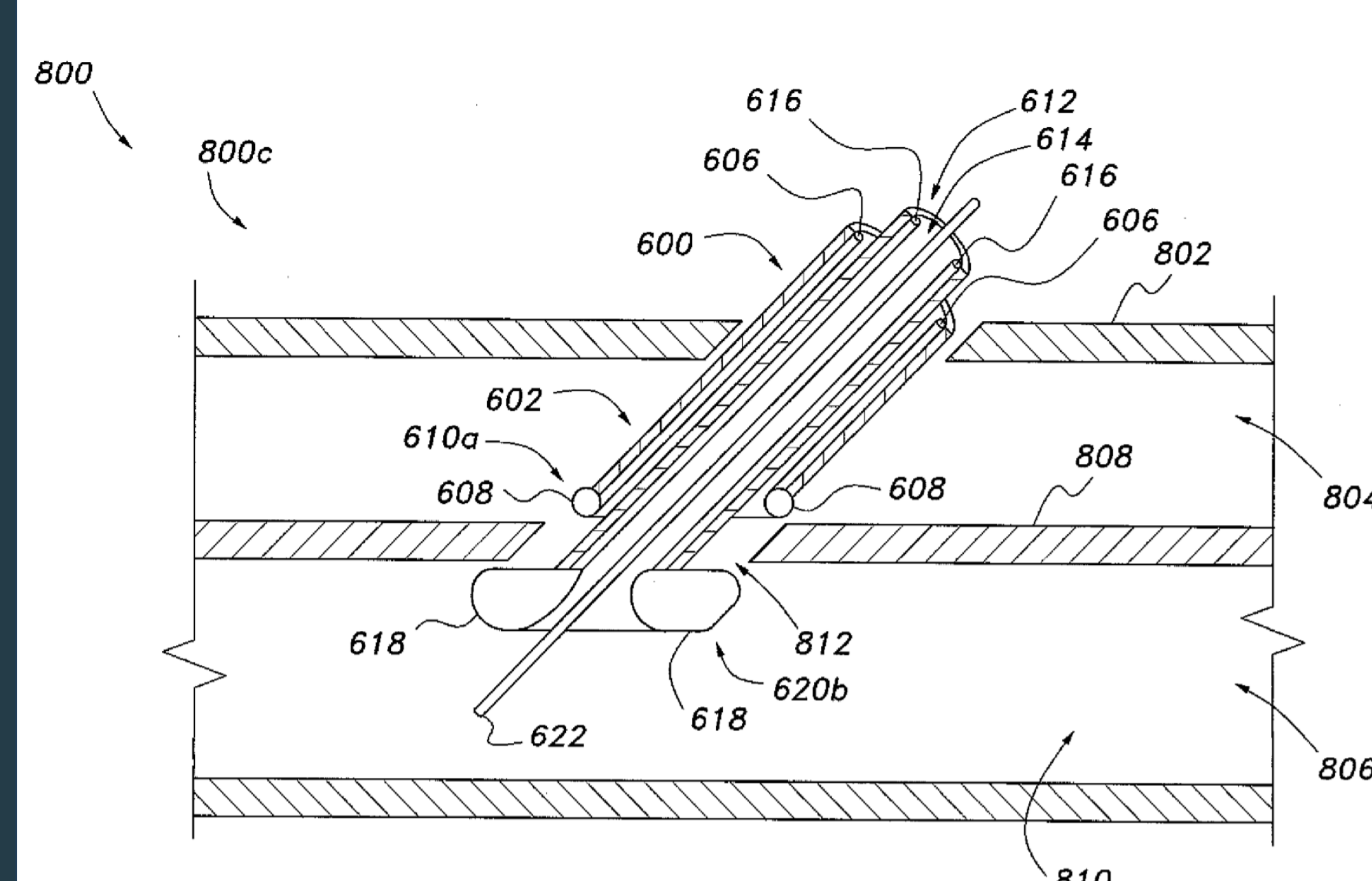
Current medical material delivery methods often face **challenges like prolonged duration, discomfort, and variable effectiveness**. For instance, manual pressure application can be painful and time-consuming, while intra-vessel anchors and external plugs **struggle with stability and placement accuracy**. There is a need for a **more efficient, patient-friendly, and secure solution to enhance medical procedures and improve outcomes**.

## Motivation

Healthcare professionals require a **faster, more effective** way to deliver medical materials during procedures. This invention aims to:

- **Reduce patient discomfort** by minimizing invasive handling.
- **Improve procedural efficiency** by ensuring quick and controlled material delivery.
- **Enhance safety and accuracy** with a controlled **expandable member** mechanism.
- **Support various medical applications** with an adaptable and easy-to-use design.

## Contact us



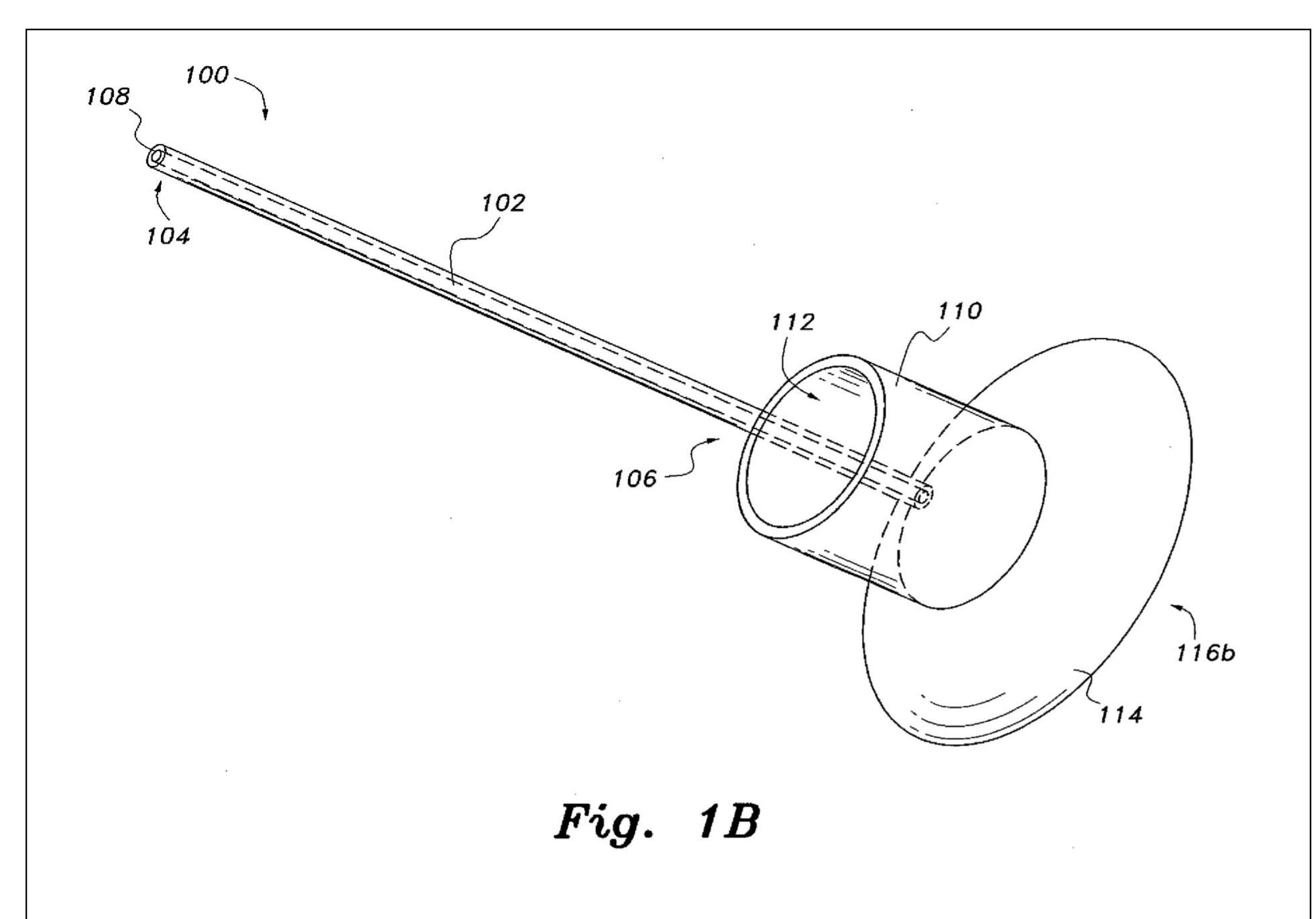
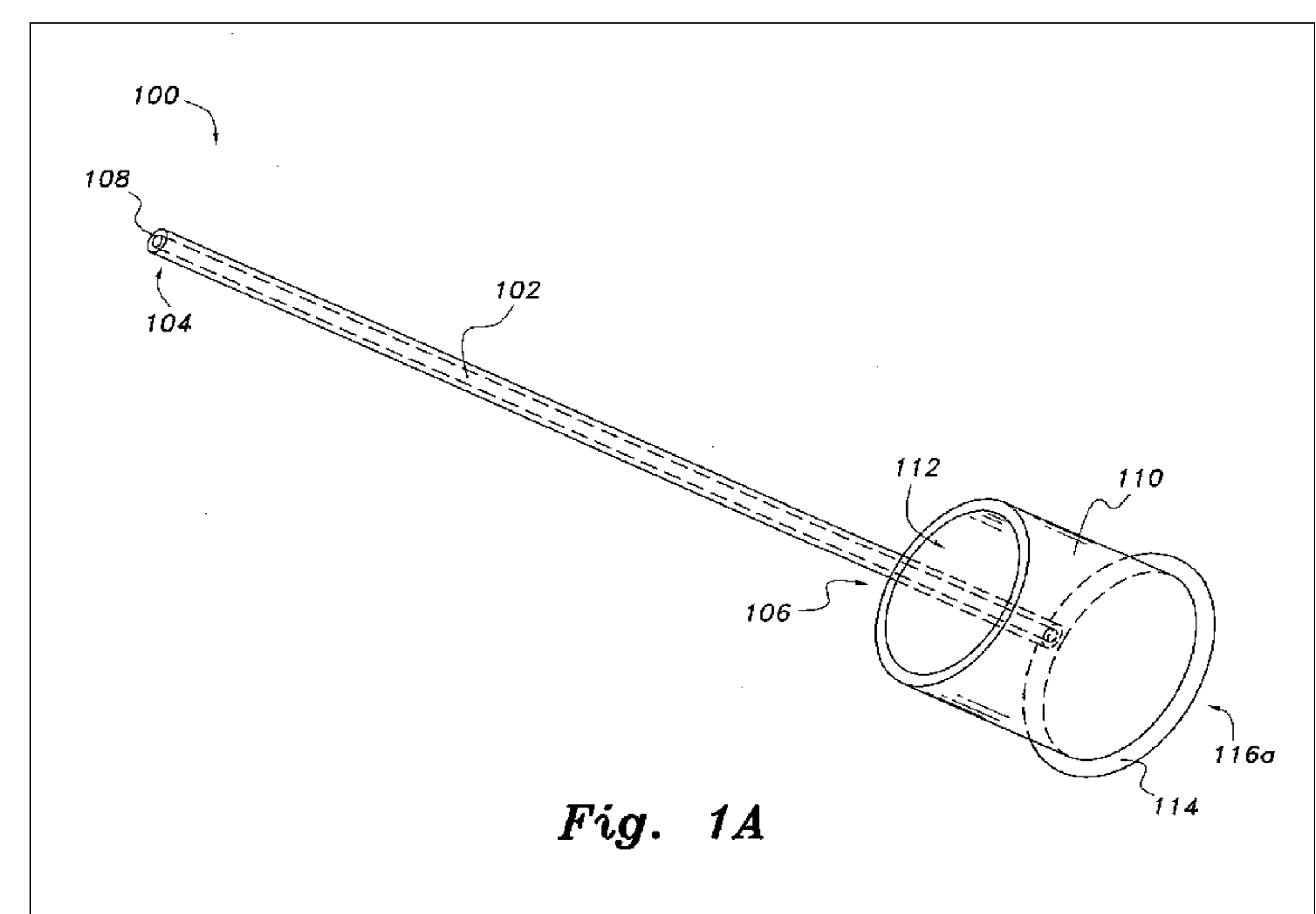
## Solution

The **medical material delivery device** consists of:

- **A shaft with a lumen** – Holds and transports the therapeutic agent.
- **A guide with a channel** – Assists in positioning the device at the target site.
- **An expandable member** – Bursts or leaks upon activation to deliver the therapeutic agent efficiently.
- **A bodily fluid locator** – Enhances precision by identifying the target site.

**Key Benefits:**

- **Time-Saving** – Reduces procedural delays.
- **Less Painful** – Minimizes discomfort compared to manual pressure or plugs.
- **Secure & Controlled** – Ensures accurate material delivery without complications.



This device benefits **all healthcare practitioners, improving global medical practice** by offering a **safe, effective, and user-friendly alternative** to existing methods.