



US005492538A

# United States Patent [19]

[11] **Patent Number:** 5,492,538

**Johlin, Jr.**

[45] **Date of Patent:** Feb. 20, 1996

[54] **METHOD FOR TRANSFERRING THE EXIT SITE OF A CATHETER FROM THE MOUTH TO THE NOSE AND INSTRUMENTATION USEFUL THEREFOR**

*Attorney, Agent, or Firm*—Woodward, Emhardt, Naughton, Moriarty & McNett

[76] **Inventor:** Frederick C. Johlin, Jr., 3517 Galway Ct., Iowa City, Iowa 52246-2765

[57] **ABSTRACT**

[21] **Appl. No.:** 295,595

A technique and instrumentation for transferring the exit site of a catheter, such as a nasal biliary catheter, from the mouth to the nose are described herein. The disclosed instrumentation includes a nasopharyngeal transfer catheter which has a tip of magnetically attractable material and a corresponding magnetic wand. The transfer catheter also includes a lateral hole therein near the its distal end which serves to facilitate attachment with the magnetic wand by increasing the flexibility of the transfer catheter in the direction towards the magnetic wand, while also providing access means for passing an nasal biliary catheter therethrough to effectuate the transfer of the nasal biliary catheter from the mouth to the nose. Alignment orientation and distance markings are also provided on nasalpharyngeal transfer catheter which facilitate the locating and attaching the tip of the transfer catheter to the magnetic wand.

[22] **Filed:** Aug. 25, 1994

[51] **Int. Cl.<sup>6</sup>** ..... A61M 25/00

[52] **U.S. Cl.** ..... 604/264; 604/283; 600/12; 128/657; 128/899

[58] **Field of Search** ..... 604/280, 283, 604/905, 264; 600/12; 128/899, 657

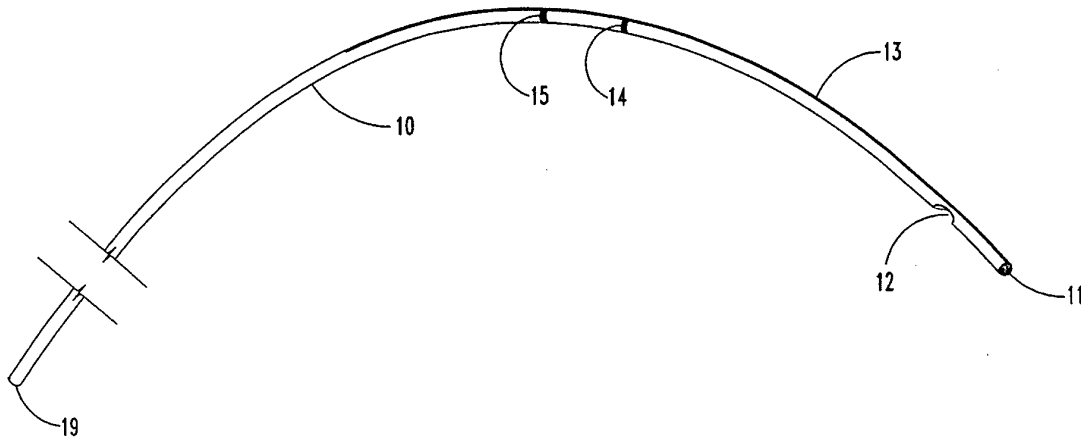
[56] **References Cited**

**U.S. PATENT DOCUMENTS**

3,674,014 7/1972 Tillander ..... 128/657  
5,269,759 12/1993 Hernandez et al. .... 604/280 X

*Primary Examiner*—John D. Yasko

**3 Claims, 5 Drawing Sheets**



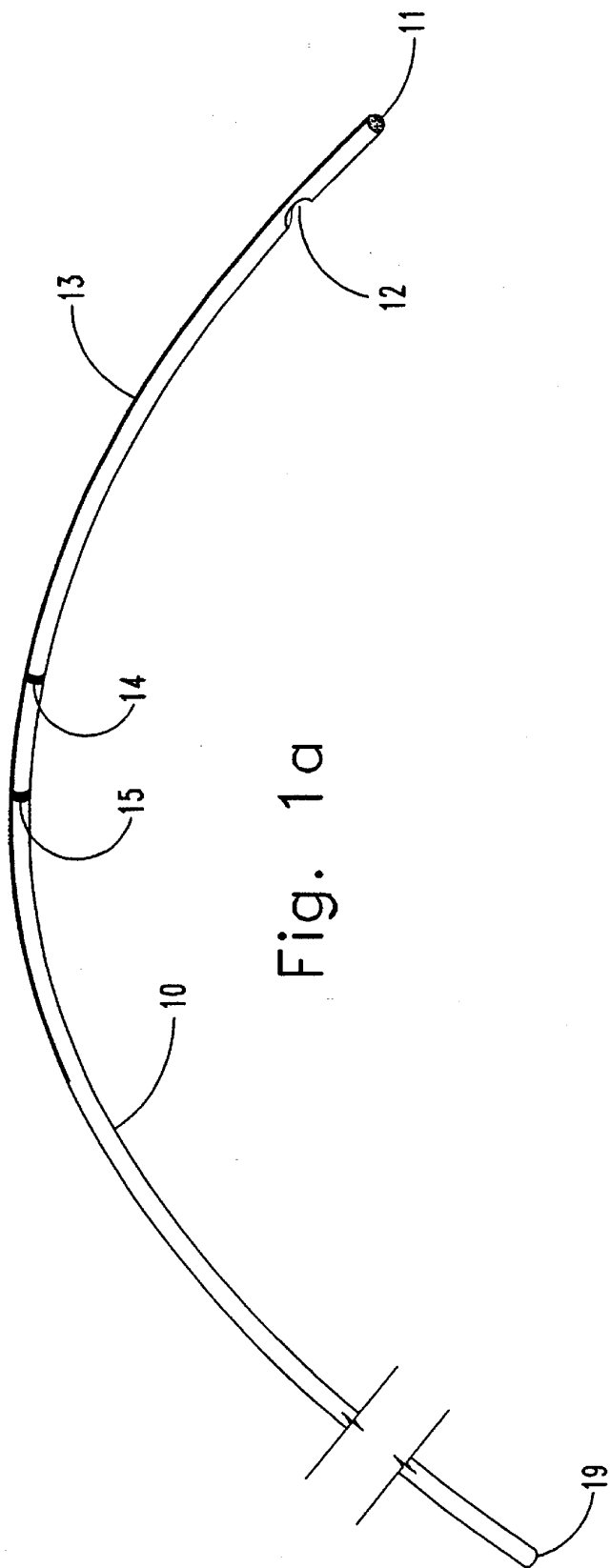


Fig. 1a

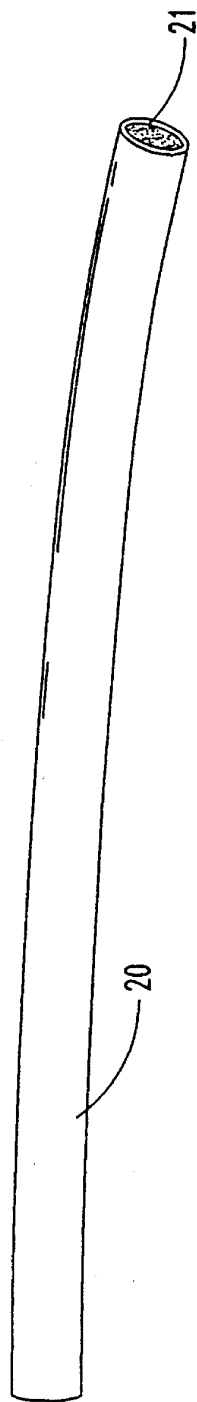


Fig. 1b

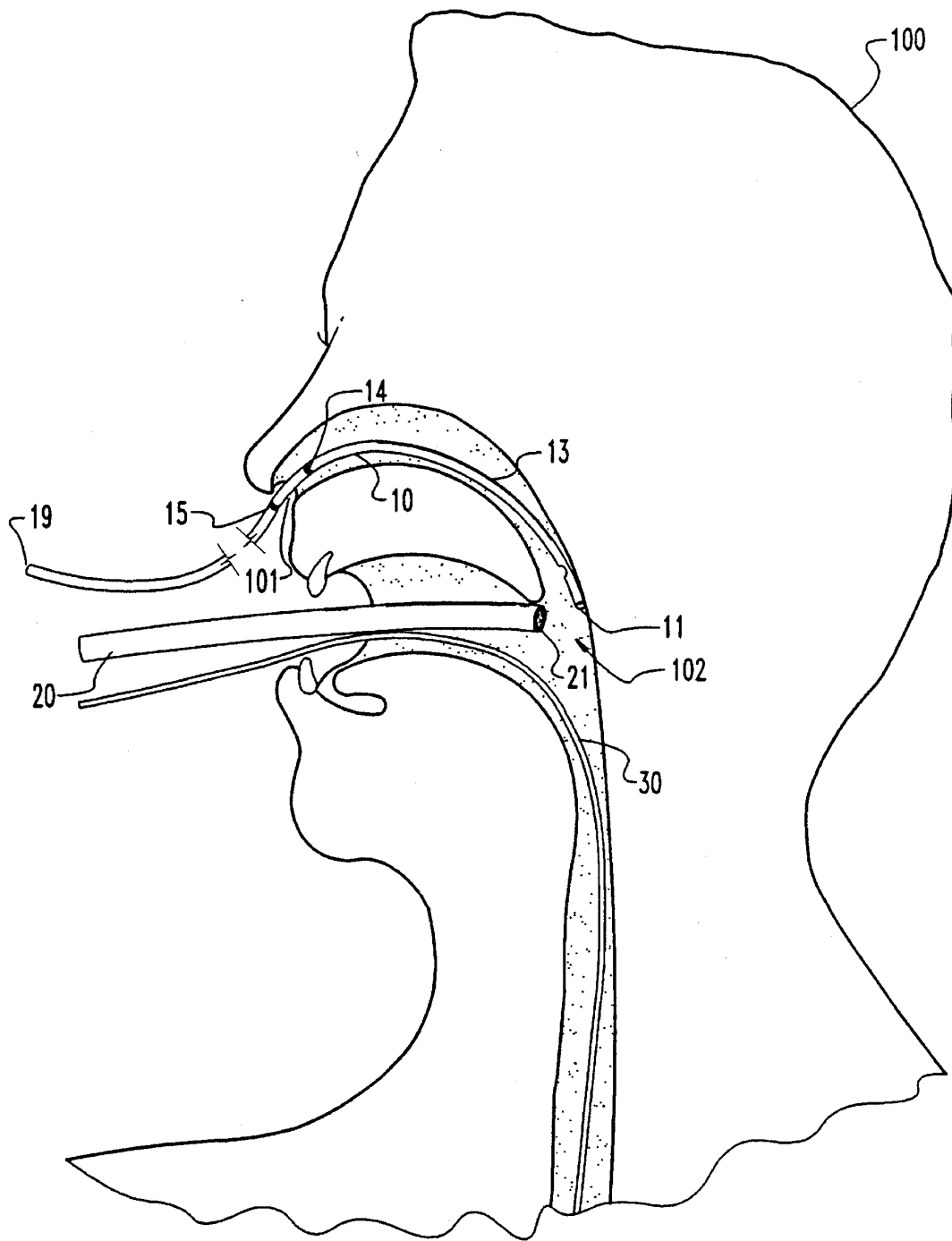


Fig. 2a

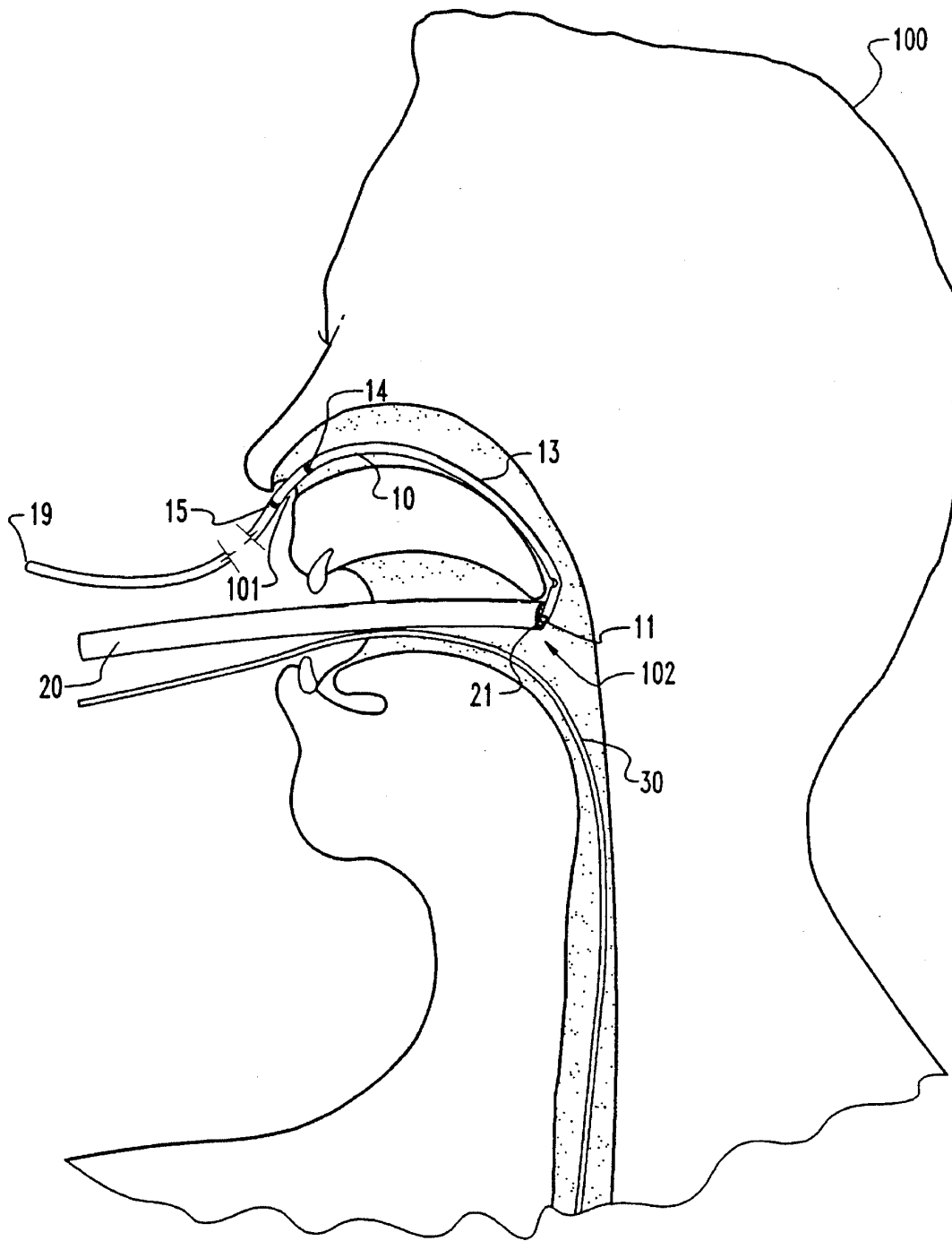


Fig. 2b

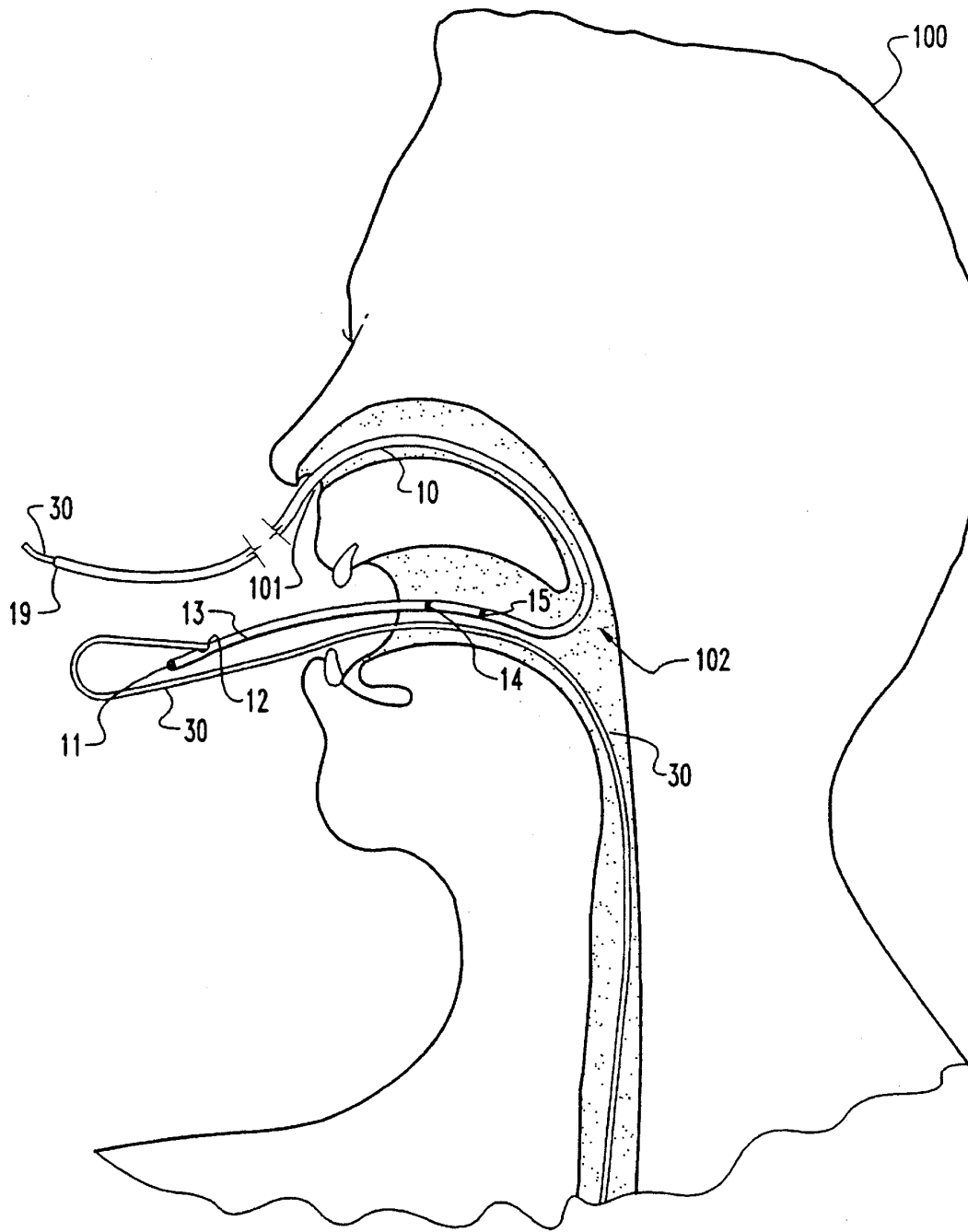


Fig. 2c

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.