United States Patent 1191

US005626604A

Date of Patent:

5,626,604 [11] **Patent Number:** May 6, 1997

Cottone, Jr.

[54] HAND HELD STENT CRIMPING DEVICE

- [75] Inventor: Robert J. Cottone, Jr., Fort Lauderdale, Fla.
- [73] Assignee: Cordis Corporation, Miami Lakes, Fla.
- [21] Appl. No.: 567,313
- [22] Filed: Dec. 5, 1995
- Int. Cl.⁶ A61M 29/00 [51] [52] U.S. Cl. 606/198; 606/1; 606/108;
- 606/192 [58] Field of Search 29/235, 234, 282,
- 29/283; 606/108, 192, 194, 198

[56] **References** Cited

U.S. PATENT DOCUMENTS

1,306,354	6/1919	Robbins .
1,765,362	6/1930	Berry .
2,455,019	11/1948	McNeill .
2,468,946	5/1949	Sherman .
2,978,250	4/1961	Adadjieff .
3,353,395	11/1967	Rauch.
4,215,871	8/1980	Hirsch et al 279/48
4,341,002	7/1982	Diba 29/235
4,553,545	11/1985	Maass et al 606/198
5,096,111	3/1992	Ishikawa et al 29/235
5,201,901	4/1993	Harada et al 606/198
5,259,109	11/1993	Fefeu et al 29/235

5,437,083 8/1995 Williams et al. 29/235 5,476,505 12/1995 Limon 623/1

Primary Examiner-Michael Buiz

[45]

[57]

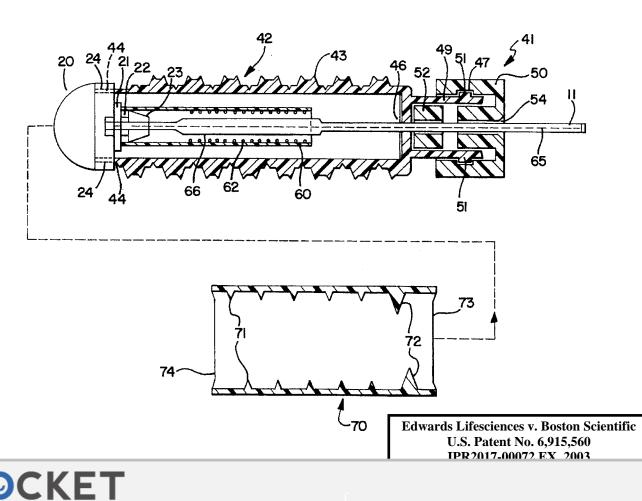
Assistant Examiner-Patrick W. Rasche

Attorney, Agent, or Firm-Lockwood, Alex, Fitzgibbon & Cummings

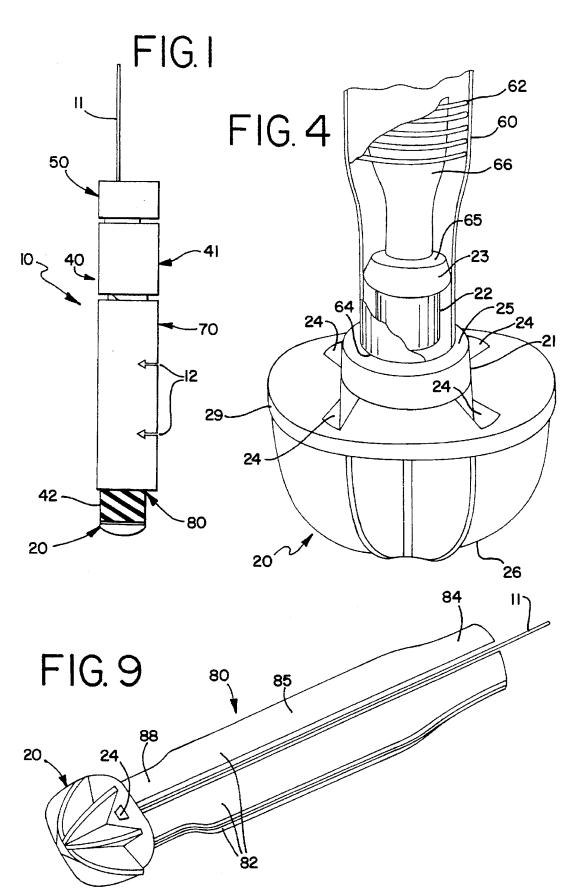
ABSTRACT

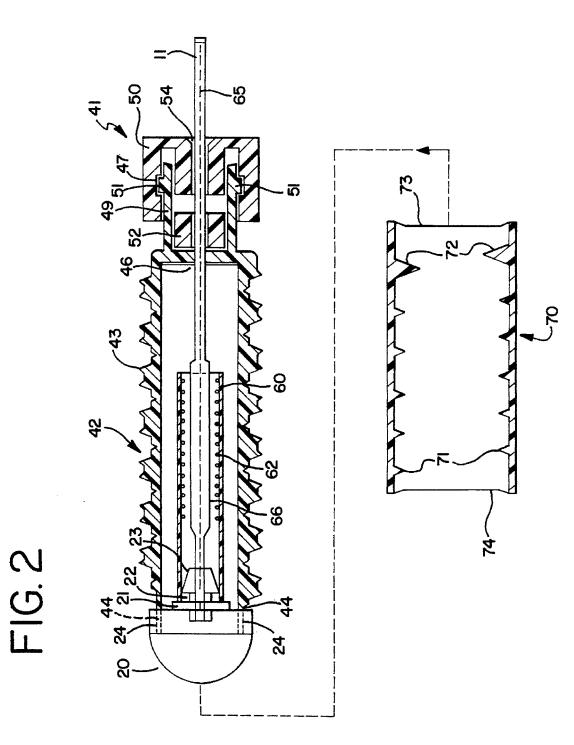
A stent loading device is provided for loading a stent on a catheter of the type used in percutaneous transluminal angioplasty (PTA) or percutaneous transluminal coronary angioplasty (PTCA) procedures. The device has an end unit for holding a stent, a collet having a plurality of radially compressible fingers fitted to said end unit, a main body having a plurality of finger-like extensions whose distal ends can be fitted into openings in said base unit, a proximal extension for receiving a cap with compressible washer therein fitted to said main body proximal extension, a rotatable sleeve with collet driver fitted about said collet and main body finger-like extensions and a guide wire embedded in end unit and longitudinally extending through said device to either terminate at the proximal end of said cap or extend a distance from the proximal end of said cap. The stent loading device serves as a stent delivery tool within which a catheter is inserted, after which the stent is crimped onto the catheter balloon. The stent loading device is disposable and well-suited for one-time use.

19 Claims, 6 Drawing Sheets

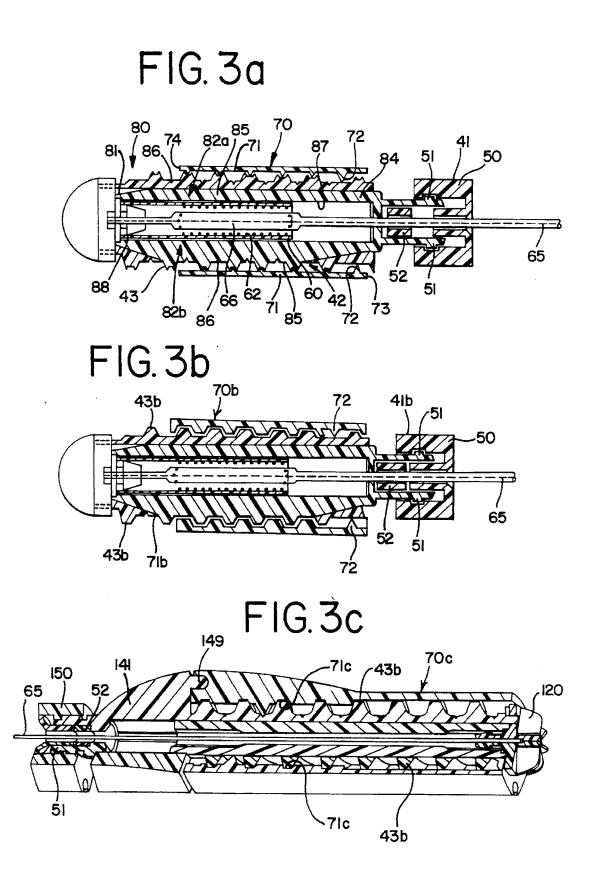


Find authenticated court documents without watermarks at docketalarm.com.

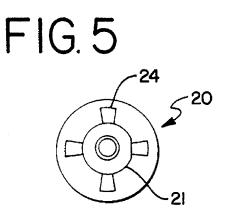


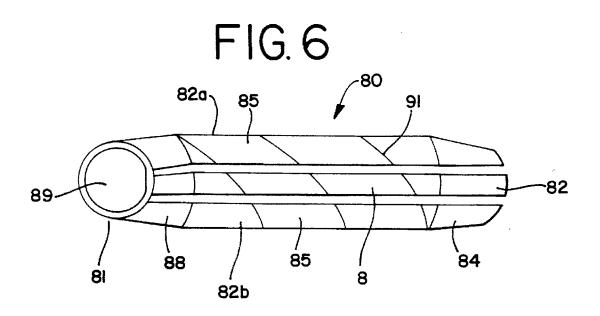


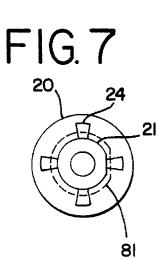
DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>.



Α R Find authenticated court documents without watermarks at docketalarm.com.

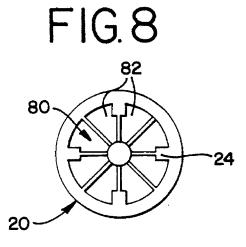






R

Α



KF. М Find authenticated court documents without watermarks at docketalarm.com.

DOCKET A L A R M



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.