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United States Patent 1191

[54] HAND HELD STENT CRIMPING DEVICE

Assignee: Cordis Corporation, Miami Lakes, Fla.

Int. Cl.⁶ A61M 29/00

U.S. Cl. **606/198**; 606/1; 606/108;

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[75] Inventor: Robert J. Cottone, Jr., Fort Lauderdale, Fla.

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Cottone, Jr.

Filed:

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[11] **Patent Number:** 5,626,604

Date of Patent:

May 6, 1997

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Primary Examiner-Michael Buiz Assistant Examiner-Patrick W. Rasche

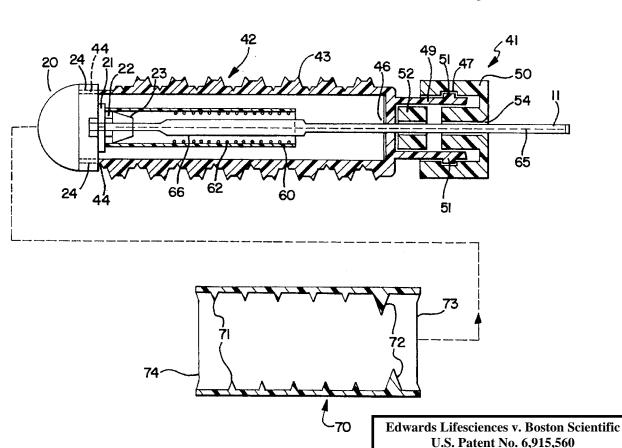
Attorney, Agent, or Firm-Lockwood, Alex. Fitzgibbon & Cummings

[57] **ABSTRACT**

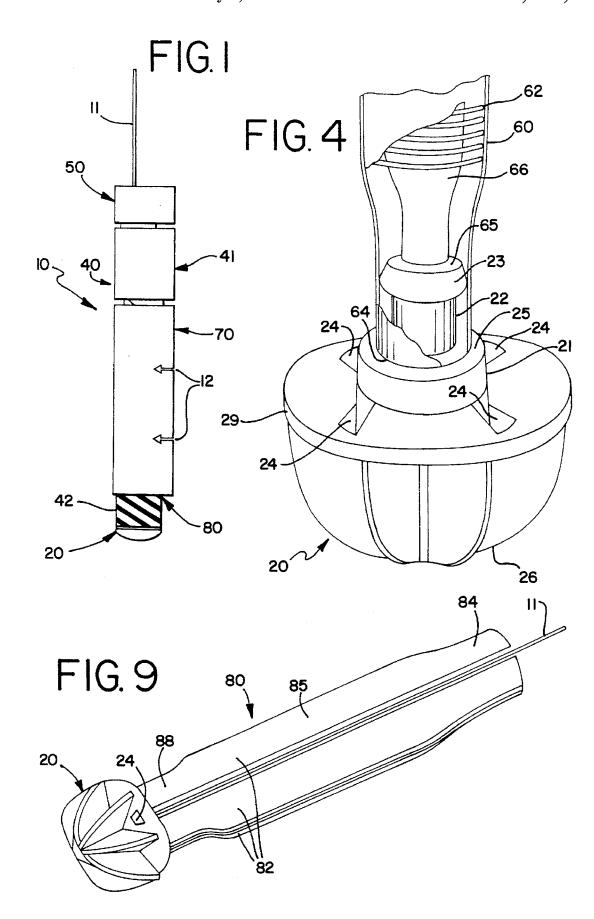
A stent loading device is provided for loading a stent on a catheter of the type used in percutaneous transluminal angioplasty (PTA) or percutaneous transluminal coronary angioplasty (PTCA) procedures. The device has an end unit for holding a stent, a collet having a plurality of radially compressible 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

IPR2017-00444 EX. 2003









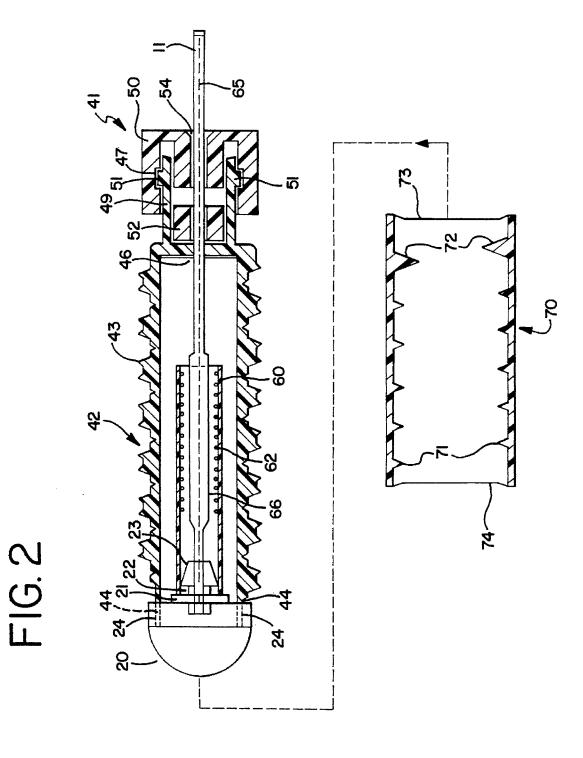




FIG. 3a

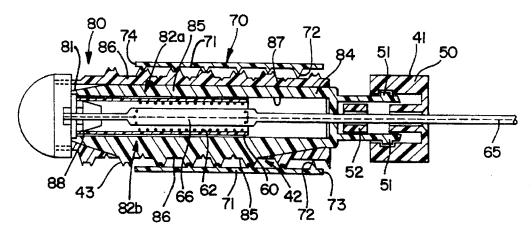
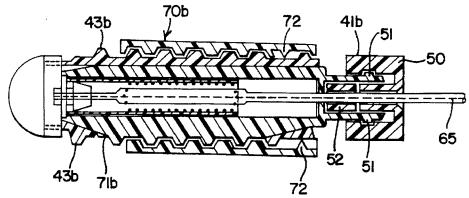


FIG.3b



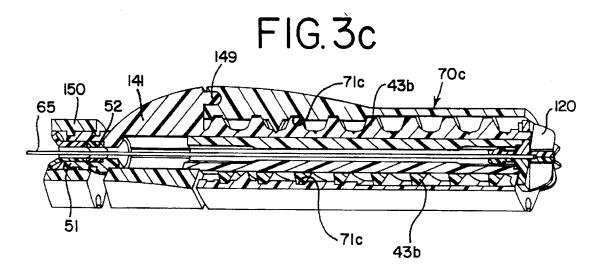




FIG.5

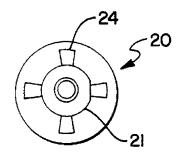


FIG. 6

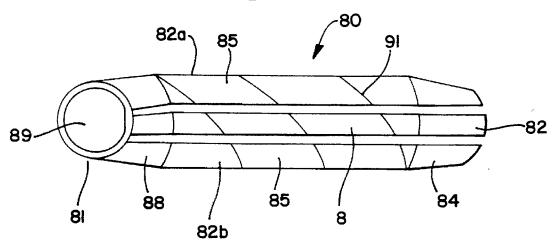
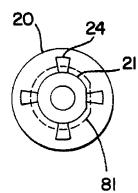
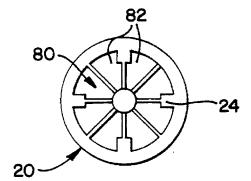


FIG.8

FIG.7





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