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United States Patent [19]

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Dinh et al.

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[54] **CYLINDRICAL ROLLER STENT CRIMPER APPARATUS WITH RADIATION SHIELD**

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[73] Assignee: **IsoStent, Inc.**, Belmont, Calif.

[21] Appl. No.: **09/177,668**

[22] Filed: **Oct. 22, 1998**

[51] **Int. Cl.**⁷ **A61B 17/00**; **A61F 11/00**

[52] **U.S. Cl.** **606/1**; **606/198**; **29/235**

[58] **Field of Search** **606/1**, **108**, **198**, **606/191**, **194**; **53/204**, **209**, **211**, **213**, **214**; **29/235**

[56] **References Cited**

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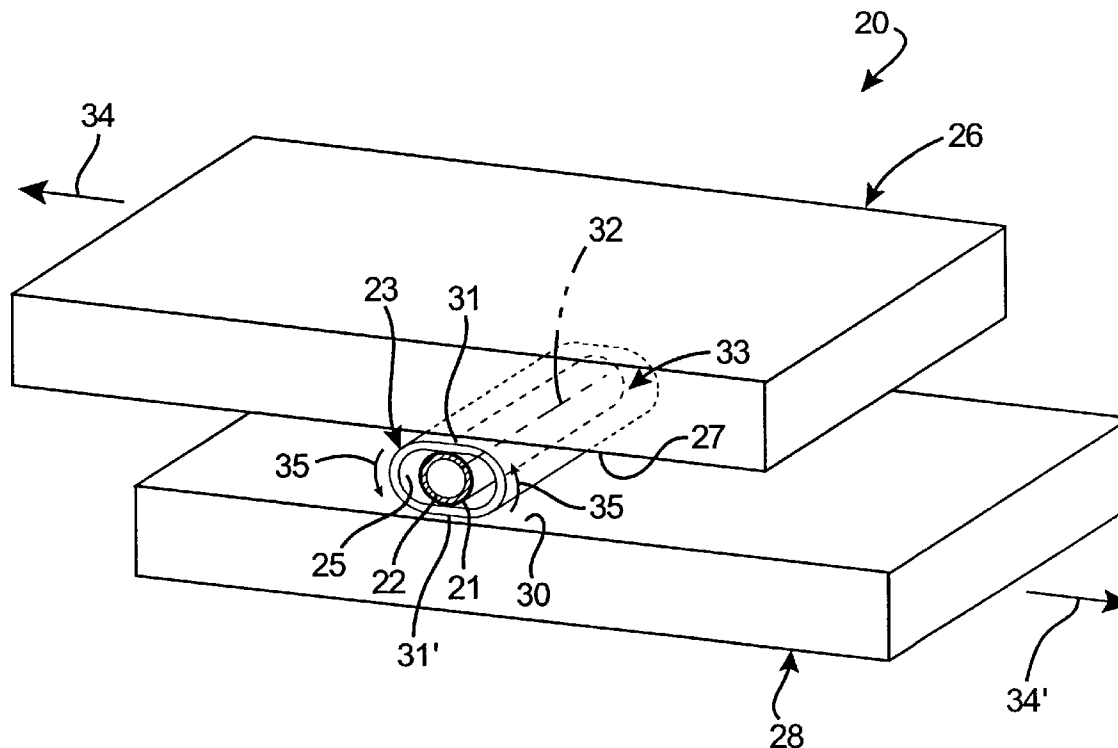
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Primary Examiner—Michael Buiz
Assistant Examiner—William Lewis
Attorney, Agent, or Firm—Beyer Weaver & Thomas

[57] **ABSTRACT**

A stent loading apparatus for loading a deformable stent onto a deployment device. The stent loading apparatus includes an elastic member defining a passage therein formed for longitudinal receipt of the deformable stent in an uncrimped condition. A first member includes a first compression region; and a second member includes a second compression region positioned substantially adjacent the first compression region at a first position. At this first position, the elastic member and the deformable stent in the uncrimped condition may be received between the opposed first and second compression regions. The first compression region and the second compression region are further configured to provide rolling support and compression of the elastic member during relative movement between the first position and a second position for rolling radial compression of the deformable stent onto the deployment device.

55 Claims, 12 Drawing Sheets



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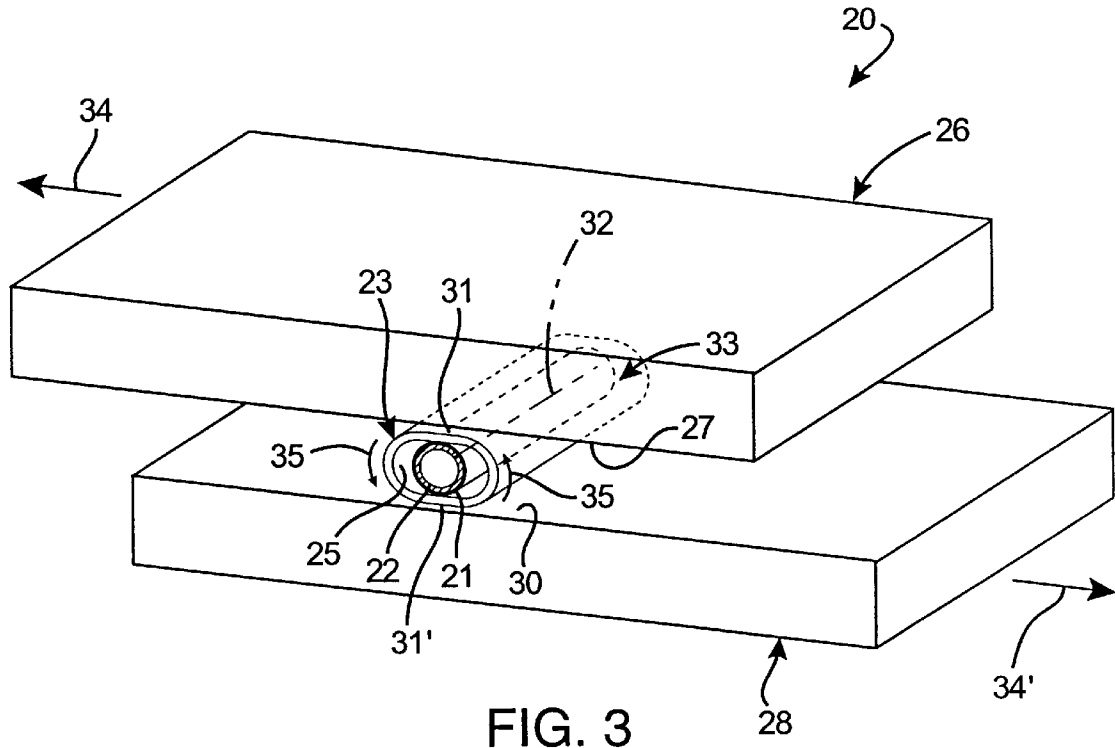


FIG. 3

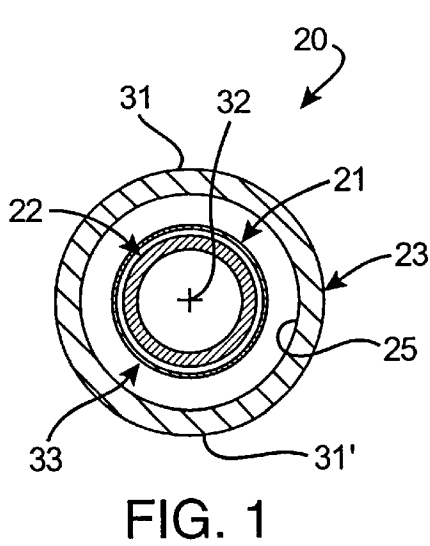


FIG. 1

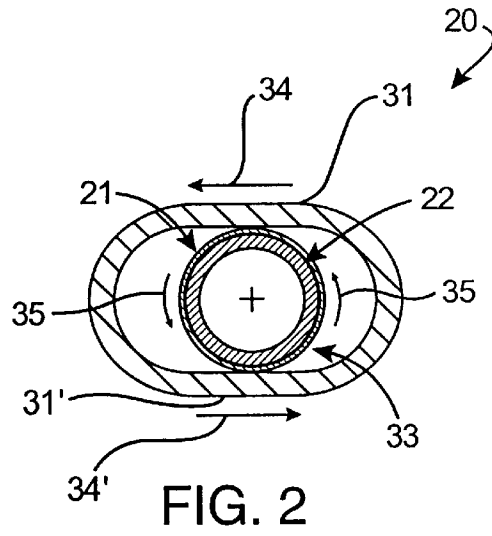


FIG. 2

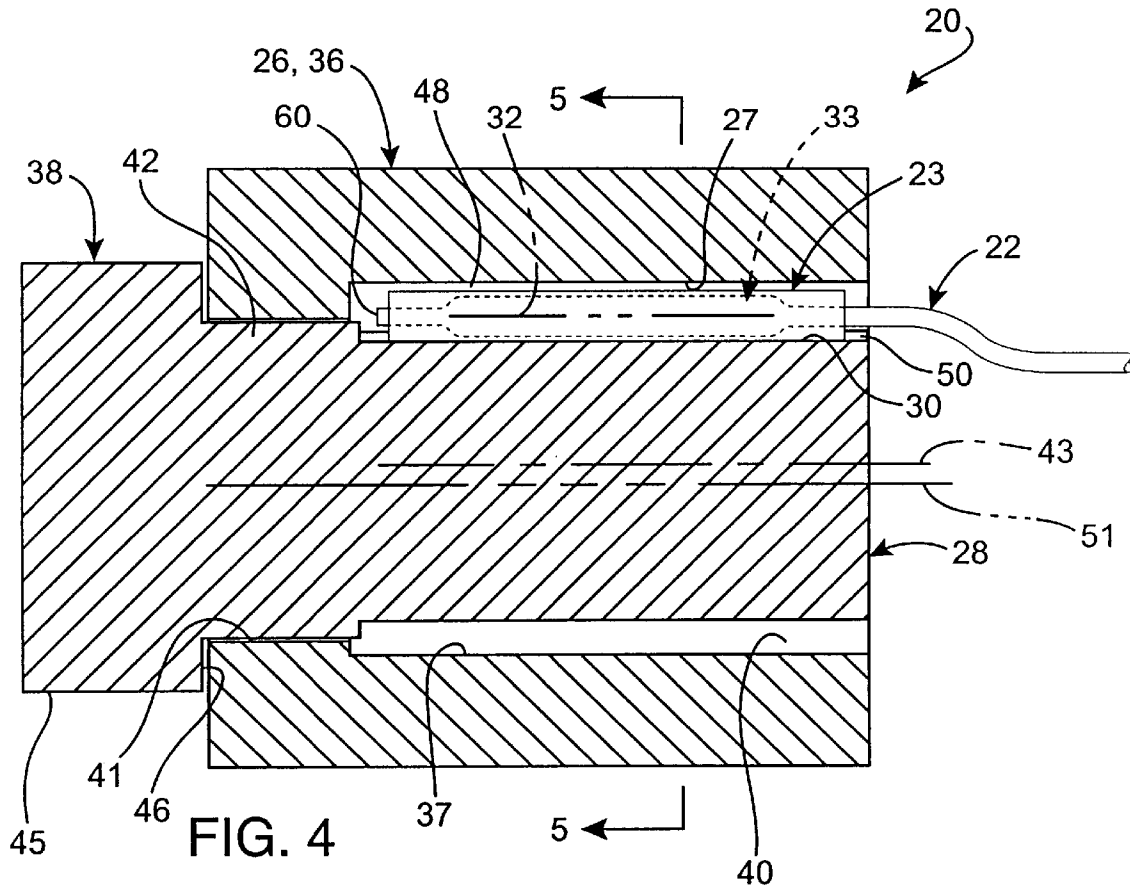


FIG. 4

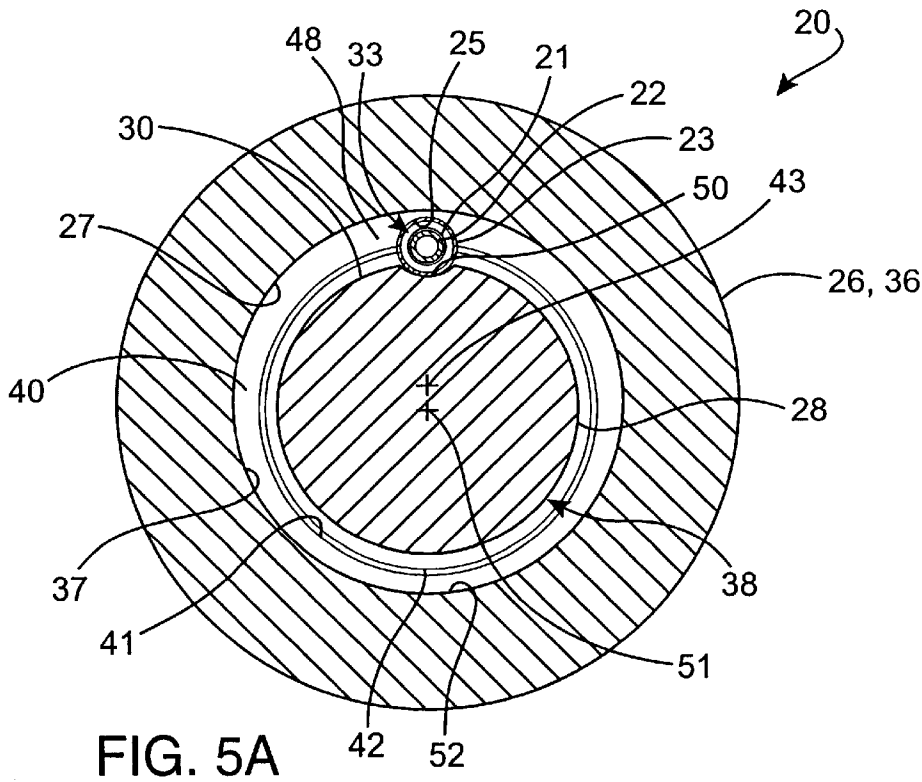


FIG. 5A

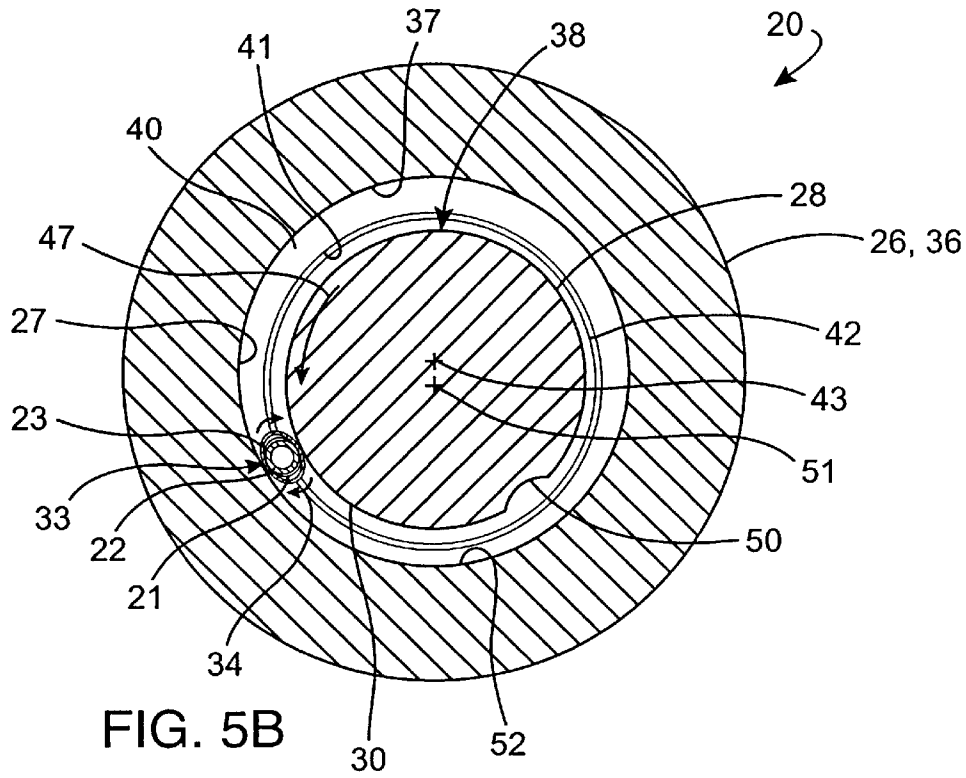


FIG. 5B

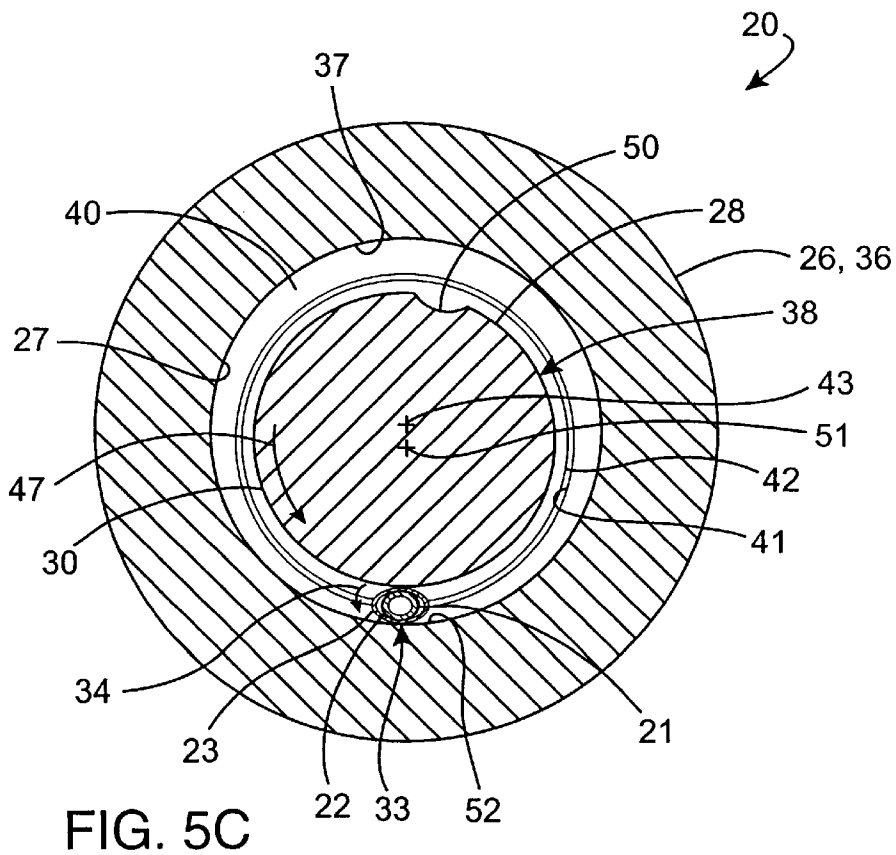


FIG. 5C

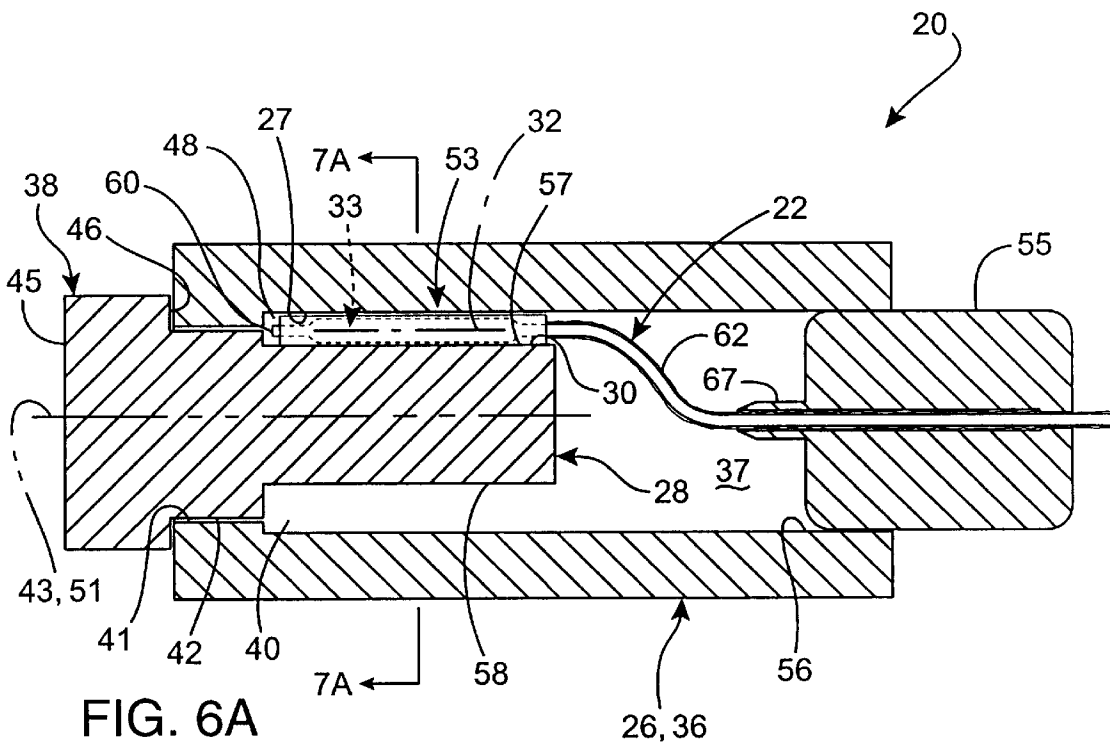


FIG. 6A

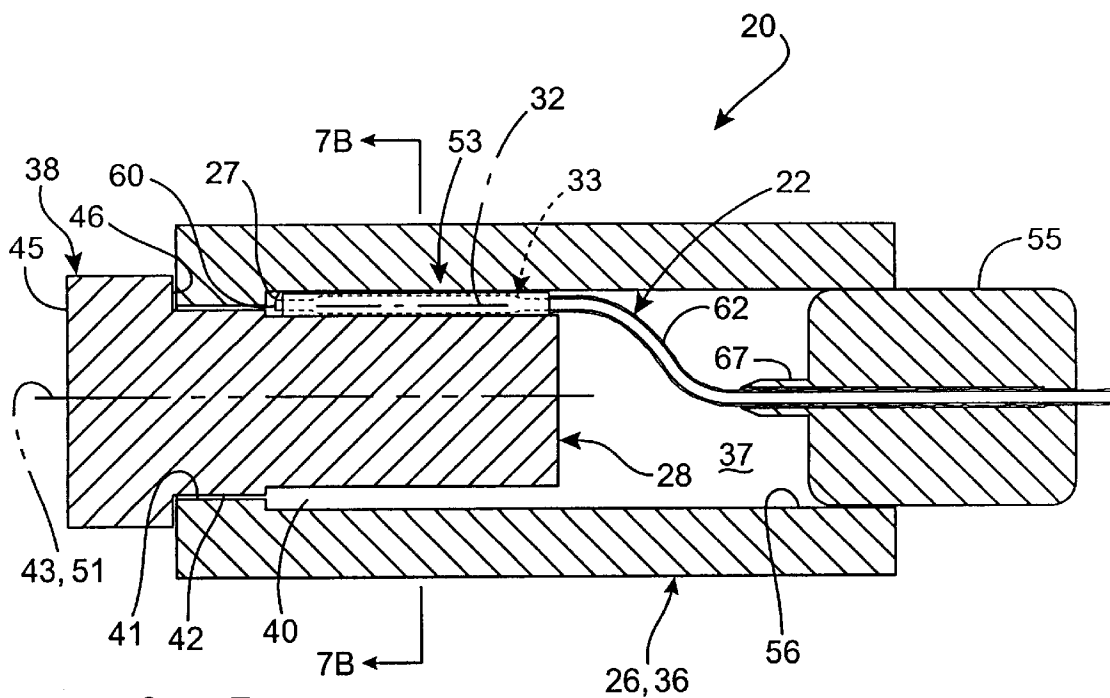


FIG. 6B

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