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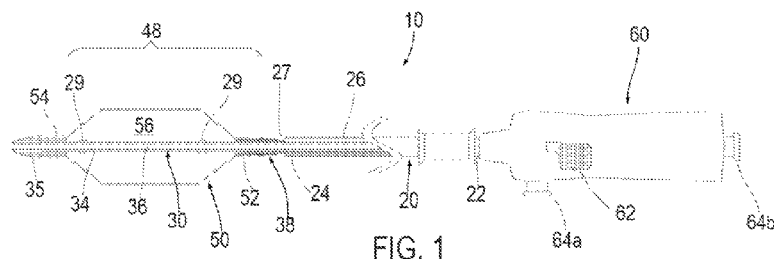


FIG. 1

(57) Abstract: Apparatus and methods are provided for delivering fluid into a body lumen during a medical procedure. A distal end of an apparatus may be introduced into a body lumen, and a valve on the distal end may be opened to deliver fluid through a first lumen into the body lumen, e.g., contrast and/or other diagnostic or therapeutic agents. The valve may be closed, and a procedure may be performed within the body lumen, e.g., using a treatment element carried on the distal end. For example, the treatment element may include a balloon that may be inflated when fluid is delivered through the first lumen with the valve closed. Optionally, a prosthesis, energy source, drug platform, and the like may be carried by the balloon for treating the body lumen. In various embodiments, the valve may be located proximal or distal to the treatment element.

