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(54) Title: VARIABLE LENGTH CATHETER FOR DRUG DELIVERY

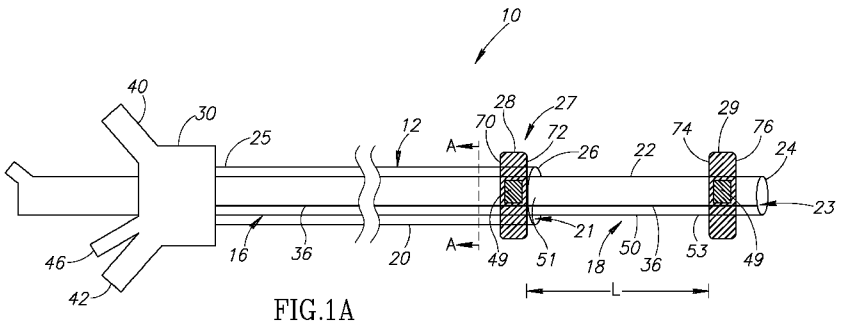


FIG.1A

(57) Abstract: A system and method for localized delivery of a therapeutic or diagnostic agent within a vessel provides for adjustability of the length of the treatment area, reducing of pressure within the treatment area, and reducing outflow of the therapeutic or diagnostic agent from the treatment area. A catheter system includes an inner elongated element, an outer elongated element coaxial to the inner elongated element, and optionally a pressure relief element at a distal end of the inner elongated element. A proximal occlusion element is positioned at the distal end of the outer elongated element, proximal to an outlet port. A distal occlusion element is positioned at a distal end of the inner elongated element. The distal end of the inner elongated element is distal to and movable with respect to the outer elongated element distal end. An inflow occlusion element may be placed proximal to the proximal occlusion element.

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