

A LOW DRAG SEPTUM STRUCTURE FOR A CATHETER

ABSTRACT

A septum structure can provide an elastic fluid-impermeable seal within a catheter passage.

5 The septum structure includes an elongate body divided into a first longitudinal segment and a second longitudinal segment, each carrying a portion of a cavity disposed relative to a septum structure longitudinal axis for reducing needle drag. Prior to insertion into the catheter, the first and second longitudinal segments are openable / closable relative to each other by way of hinge elements defining a pivot axis perpendicular to the longitudinal axis at
10 a septum structure distal end. The first longitudinal segment includes a projection extending radially away from the longitudinal axis, against which a proximal face of the second longitudinal segment is disposed when the septum structure is in a closed position. Because of the projection, the first and second longitudinal segments are asymmetric with respect to each other along the longitudinal axis, which aids reliable sealing.

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FIG. 1