

INTRALUMINAL RADIATION TREATMENT SYSTEM

Abstract

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This invention is a transfer device and catheter assembly (10) for the delivery of treatment elements to a selected location within the intraluminal passageways of a patient as part of an intraluminal radiation system.

The transfer device (12) includes a gate member that permits the treatment elements to leave the transfer device (12) only if the catheter (14) is attached thereto. A pressure indicator (56) provides a visual indication of the fluid pressure within the transfer device (12), and a pressure relief valve (56) provides for a release of the fluid if the pressure exceeds a predetermined pressure. Transfer device (12) also includes a treatment element detection system, low power indicator, a counter system, and an electromagnetic locking mechanism to prevent the opening or closing of the gate member when less than all of the treatment elements are in the transfer device.

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(Figure 1)