

METHOD AND DEPLOYABLE MULTI-SPINE APPARATUS FOR CATHETER-BASED RENAL DENERVATION

ABSTRACT

[0057] A vascular denervation device and a method for batch fabricating a plurality of catheter arms for the vascular denervation device are provided. The vascular denervation device includes a catheter for insertion into a vessel, at least one elongated catheter arm having alternating regions of flexible joints and rigid blocks and at least one linkage connected to all of the elongated catheter arms. Two or more sensors, at least one electrode and electrical circuitry are disposed on each of the catheter arms. The two or more sensors include at least one tactile sensor and at least one temperature sensor. The at least one electrode is for nerve ablation and the electrical circuitry disposed on each of the catheter arms is coupled to inputs and outputs of the electrodes and the sensors. The linkage is connected to all of the elongated catheter arms at substantially an end thereof for wrapping all of the elongated catheter arms around the catheter.

FIG. 7B