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(54) Title: DEVICE FOR MAPPING AND ABLATING RENAL NERVES DISTRIBUTED ON THE RENAL ARTERY

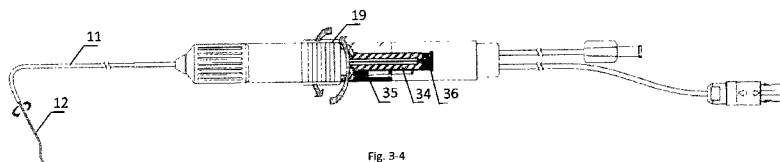


Fig. 3-4

(57) **Abstract:** A device for mapping and ablating the renal nerves distributed on the renal artery is provided, said device comprising a guide catheter (11), a mapping-ablation catheter (12), a handle (13) and a connector (15). The guide catheter (11) had at least one lumen and a distal end with adjustable curvature. The mapping-ablation catheter (12) is housed in one of the lumens of the guide catheter (11) and its distal end has one or more electrodes (22) and one or more detecting devices (23). The distal end of the mapping-ablation catheter (12) is curved, rotatable, and can be extended out of or retracted into the guide catheter (11). The handle (13) connects the guide catheter (11) and mapping-ablation catheter (12), and comprises one or more controlling components for controlling the movement of the guide catheter (11) and mapping-ablation catheter (12). The connector (15) is designed to supply energy to the electrodes (22).

