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(54) **BASKET CATHETER WITH DEFLECTABLE SPINE**

(57) A catheter adapted for mapping and/or ablation in the atria has a basket-shaped electrode array with two or more location sensors with a deflectable expander. The catheter comprises a catheter body, a basket electrode assembly at a distal end of the catheter body, and a control handle at a proximal end of the catheter body. The basket electrode assembly has a plurality of electrode-carrying spines and an expander that is adapted

ed for longitudinal movement relative to the catheter body for expanding and collapsing the assembly via a proximal end portion extending past the control handle that can be pushed or pulled by a user. The expander is also adapted for deflection in responsive to an actuator on the control handle that allows a user to control at least one puller wire extending through the catheter body and the expander.

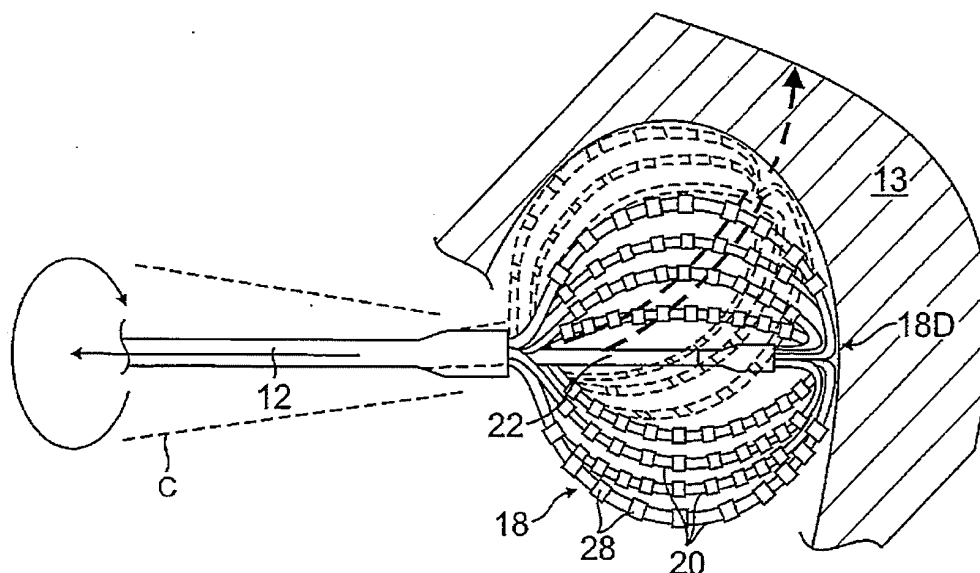


FIG. 2