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(54) Title: ABLATION DEVICES, SYSTEMS AND METHODS OF USING A HIGH-RESOLUTION ELECTRODE ASSEMBLY

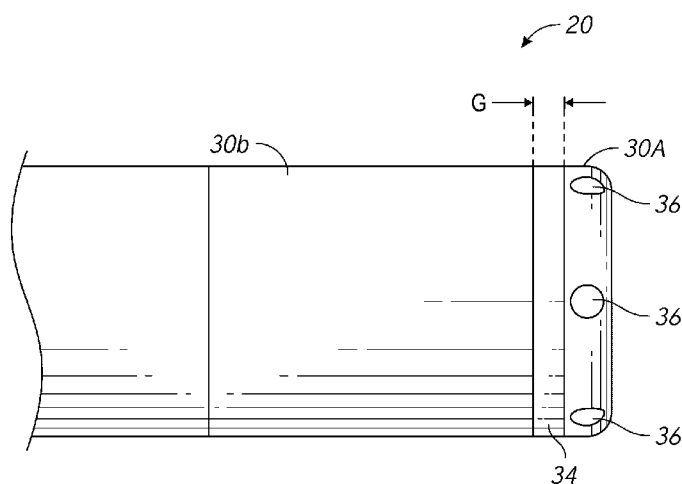


FIG. 2

(57) Abstract: According to some embodiments, an ablation device comprises an elongate body (e.g., a catheter) having a proximal end and a distal end, a first electrode (e.g., a radiofrequency electrode) positioned at the distal end of the elongate body, at least a second electrode (e.g., a radiofrequency electrode) positioned at a location proximal to the first electrode, the first electrode and the second electrode being configured to contact tissue of a subject and deliver radiofrequency energy sufficient to at least partially ablate the tissue, at least one electrically insulating gap positioned between the first electrode and the second electrode and a filtering element configured to present a low impedance at a frequency used for delivering ablation energy via the first and second electrodes.



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