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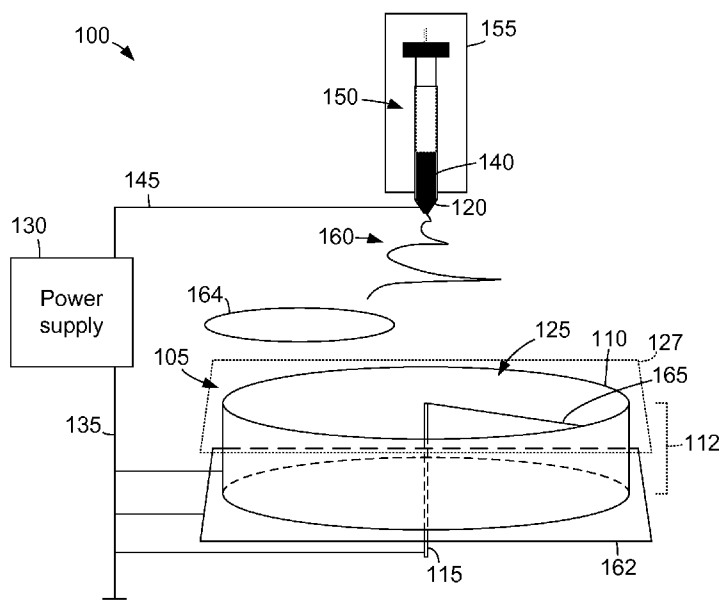
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(54) Title: BIOMEDICAL PATCHES WITH ALIGNED FIBERS

FIG. 1



(57) Abstract: A structure of aligned (e.g., radially and/or polygonally aligned) fibers, and systems and methods for producing and using the same. One or more structures provided may be created using an apparatus that includes one or more first electrodes that define an area and/or partially circumscribe an area. For example, a single first electrode may enclose the area, or a plurality of first electrode(s) may be positioned on at least a portion of the perimeter of the area. A second electrode is positioned within the area. Electrodes with rounded (e.g., convex) surfaces may be arranged in an array, and a fibrous structure created using such electrodes may include an array of wells at positions corresponding to the positions of the electrodes.



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