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(54) Title: ATMOSPHERIC WATER HARVESTER WITH HIGH EFFICIENCY, AND METHODS OF USING THEREOF

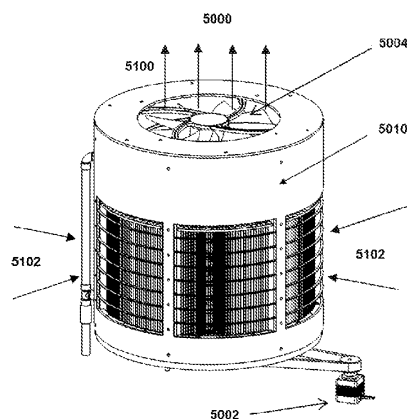


FIG. 5A

(57) Abstract: Provided herein are water harvesting systems, as well as methods using such systems, for capturing water from surrounding air. The systems and methods use water capture materials to adsorb water from the air. For example, the water capture materials may be metal-organic- frameworks. The systems and methods desorb this water in the form of water vapor, and the water vapor is condensed into liquid water and collected. The liquid water is suitable for use as drinking water.