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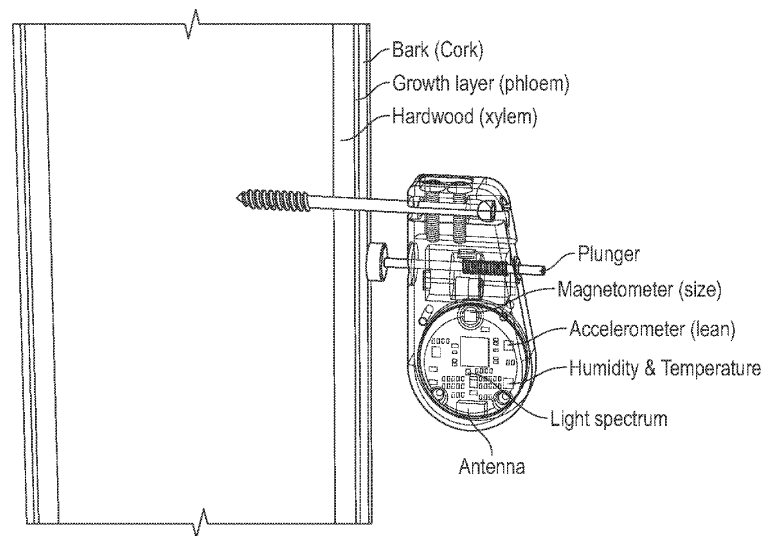


FIG. 9A

(57) Abstract: Described herein are sensors, systems, and methods for measuring plant size, e.g., size of a part of the plant such as a plant stem, trunk, fruit, vine, etc. and/or other plant part characteristics. In some embodiments, the sensor includes two or more components selected from the group consisting of: a dendrometer, an accelerometer, an air temperature sensor, a humidity sensor, and a light sensor. Any of the sensors described herein may relay data to a mobile device or server to inform users of plant health and/or map the connectivity of a wireless network of sensors.

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