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Matlen

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(54) **SELF-CONTAINED APPARATUSES FOR
HANGING, HOLDING, ROTATING, OR
WATERING PLANTS USING SOLAR POWER
FOR PLANT MAINTENANCE**

(76) Inventor: **Darryl Matlen**, Deer Park, WA (US)

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patent is extended or adjusted under 35
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(58) **Field of Classification Search** **47/67, 79**
See application file for complete search history.

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Primary Examiner — Frank T Palo

(74) *Attorney, Agent, or Firm* — Malhotra Law Firm, PLLC;
Deepak Malhotra

(57) **ABSTRACT**

Plant supporting apparatuses designed to hang a planter and plant at a variety of desired locations without lines for external electrical or water supply. Power is provided by solar cells. This construction allows the placement of plants almost anywhere and provides desired routine maintenance automatically. The apparatuses rotate the plant to grow uniformly even though incident light is non-uniform. There are two main assemblies which rotate relative to each other. A pump transfers liquids from a reservoir to a dispensing outlet onto a planter. The pump may be configured to move within the reservoir to stir the water, fertilizer or other liquids being fed to the planter. A planter is also shown which has solar cells and other parts mounted thereon. A control system is used to control operation and ambient light and reservoir liquid level are sensed.

42 Claims, 15 Drawing Sheets

