



(12) **United States Patent**
Solon

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(54) **LEAD ASSEMBLY FOR CONNECTING SOLAR PANEL ARRAYS TO INVERTER**

(71) Applicant: **SHOALS TECHNOLOGIES GROUP, LLC**, Portland, TN (US)

(72) Inventor: **Dean Solon**, Gallatin, TN (US)

(73) Assignee: **SHOALS TECHNOLOGIES GROUP, LLC**, Portland, TN (US)

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(Continued)

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Primary Examiner — Ryan S Cannon
(74) *Attorney, Agent, or Firm* — MASCHOFF BRENNAN; Paul G. Johnson

(57) **ABSTRACT**

A lead assembly includes a feeder cable, one or more drop lines, and one or more mold structures. Each drop line includes a drop line connector, the drop line connector configured to be capable of detachable connection to a wire harness having a plurality of branches that are each configured to receive electrical power generated by a corresponding photovoltaic (PV) panel resulting in combined electrical power at the drop line connector. The one or more mold structures are disposed about a region of electrical interconnection between the feeder cable and the one or more drop lines. The one or more mold structures substantially seal the region of electrical interconnection from external environmental conditions. The combined electrical power received at each drop line connector is delivered to the feeder cable at the region of electrical interconnection.

20 Claims, 26 Drawing Sheets



