US009510515B2

(12) **United States Patent**
Sutterlin

(10) **Patent No.: US 9,510,515 B2**
(45) **Date of Patent: Dec. 6, 2016**

(54) **ROOTZONE HEATING FOR ENERGY CONSERVATION USING LATENT HEAT STORAGE**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 49 days.

(21) Appl. No.: **14/207,491**

(22) Filed: **Mar. 12, 2014**

(65) **Prior Publication Data**

US 2014/0259912 A1 Sep. 18, 2014

Related U.S. Application Data

(60) Provisional application No. 61/798,112, filed on Mar. 15, 2013.

(51) **Int. Cl.**

A01G 9/02	(2006.01)
A01G 9/10	(2006.01)
A01G 1/00	(2006.01)

(52) **U.S. Cl.**

CPC ***A01G 1/001*** (2013.01); ***A01G 9/021*** (2013.01); ***A01G 9/10*** (2013.01); ***A01G 9/1086*** (2013.01)

(58) **Field of Classification Search**

CPC C09K 17/14; G05D 1/02; G05D 9/00; A01K 9/16; A01N 25/00; A01N 25/28; A01G 9/1086; A01G 9/10; A01G 9/021

USPC ..... 47/58.1 SC

See application file for complete search history.

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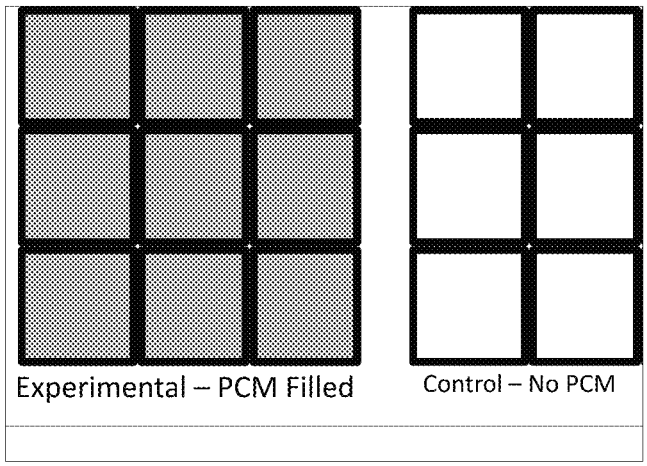
(57) **ABSTRACT**

The invention provides improved compositions and methods for growing and cultivating plants, wherein the compositions and methods comprise placing phase change materials (PCMs) close to, in contact with, or substantially in contact with, a plant root system, a plant pot or a plant soil (containing plant roots) to absorb the heat from the day and release it at night.

23 Claims, 8 Drawing Sheets