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(54) **MONITORING SYSTEM AND IMAGE RECONSTRUCTION METHOD FOR PLANTING BED**

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See application file for complete search history.

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(57) **ABSTRACT**

An image reconstruction method adapted to use with a planting bed is provided. The planting bed is constituted by a work platform disposed on a work plane and for supporting a plurality of plants thereon. The image reconstruction method includes steps of: capturing a plurality of images of the work platform from different positions on a monitoring plane to obtain a plurality of image data, wherein the monitoring plane is opposite to the work plane, the monitoring and work planes are parallel to each other in a visible range and have a predetermined distance therebetween; and performing an image stitching algorithm to stitch the image data into a two-dimensional image of the planting bed. A monitoring system of a planting bed is also provided.

5 Claims, 3 Drawing Sheets