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Kim et al.

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(54) **STEREO MATCHING METHOD AND SYSTEM USING RECTANGULAR WINDOW**

(52) **U.S. CI.**
CPC **G06T 7/62** (2017.01); **G06T 1/60** (2013.01); **G06T 5/006** (2013.01); **G06T 5/50** (2013.01);

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(58) **Field of Classification Search**
CPC ... G06T 7/62; G06T 7/11; G06T 7/174; G06T 7/593; G06T 1/60; G06T 5/006; G06T 5/50
See application file for complete search history.

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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 241 days.

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(57) **ABSTRACT**

(30) **Foreign Application Priority Data**

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Disclosed is a stereo matching method and apparatus based on a stereo vision, the method including acquiring a left image and a right image, identifying image data by applying a window to each of the acquired left image and right image, storing the image data in a line buffer, extracting a disparity from the image data stored in the line buffer, and generating a depth map based on the extracted disparity.

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13 Claims, 10 Drawing Sheets

