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(54) **RECTIFICATION APPARATUS OF STEREO VISION SYSTEM AND METHOD THEREOF**

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See application file for complete search history.

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(57) **ABSTRACT**  
Provided is a rectification apparatus of a stereo vision system and a method thereof. The method comprises: distinguishing variables and parameters preset in a determinant configured with parameters of the stereo cameras and rectification parameters for axial movement of the rectification, and converting the determinant into a linear function by substituting constant parameters for the parameters preset in the determinant; storing left and right images transmitted from the stereo cameras; sequentially performing a coordinate operation; calculating a weight and coordinates of a camera image plane; and linearly interpolating the pixel value by using the calculated weight and coordinates of the camera image plane, and then mapping the pixel value to the coordinates of the rectified image plane.

**5 Claims, 5 Drawing Sheets**

