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(54) **MOBILE ROBOT WITH A HEAD-BASED MOVEMENT MAPPING SCHEME**

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G06K 9/00 (2006.01)
(52) **U.S. Cl.** **382/153**; 901/8; 901/16; 700/245; 318/568.12
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See application file for complete search history.

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(57) **ABSTRACT**

A robotic system that includes a mobile robot and a remote input device. The input device may be a joystick that is used to move a camera and a mobile platform of the robot. The system may operate in a mode where the mobile platform moves in a camera reference coordinate system. The camera reference coordinate system is fixed to a viewing image provided by the camera so that movement of the robot corresponds to a direction viewed on a screen. This prevents disorientation during movement of the robot if the camera is panned across a viewing area.

5 Claims, 8 Drawing Sheets