

Exhibit 10

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Washington, DC 20231

Presented for filing is a new patent application claiming priority from a provisional patent application of:

Applicant: ERIC FOXLIN

Title: SELF-REFERENCED TRACKING

Enclosed are the following papers, including those required to receive a filing date under 37 CFR §1.53(b):

	<u>Pages</u>
Specification	21
Claims	8
Abstract	1
Declaration	[To be Filed at a Later Date]
Drawing(s)	4

Enclosures:

— Postcard.

Under 35 USC §119(e)(1), this application claims the benefit of prior U.S. provisional application 60/178,797, filed January 28, 2000.

This application is entitled to small entity status. A small entity statement will be filed at a later date.

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SELF-REFERENCED TRACKING

CLAIM OF PRIORITY

This application claims priority under 35 USC §119(e) to provisional U.S. Patent Application Serial No. 60/178,797, filed on January 28, 2000, the entire contents of which are hereby incorporated by reference.

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BACKGROUND

This invention relates to self-referenced tracking.

Virtual reality (VR) systems require tracking of the orientation and position of a user's head and hands with respect to a world coordinate frame in order to control view parameters for head mounted devices (HMDs) and allow manual interactions with the virtual world. In laboratory VR setups, this tracking has been achieved with a variety of mechanical, acoustic, magnetic, and optical systems. These systems require propagation of a signal between a fixed "source" and the tracked "sensor" and therefore limit the range of operation. They also require a degree of care in setting up the source or preparing the site that reduces their utility for field use.

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The emerging fields of wearable computing and augmented reality (AR) require tracking systems to be wearable and capable of operating essentially immediately in arbitrary environments. "Sourceless" orientation trackers have been developed based on geomagnetic and/or inertial sensors. They allow enough control to look around the virtual environment and fly through it, but they don't enable the "reach-out-and-grab" interactions that make virtual environments so intuitive and which are needed to facilitate computer interaction.

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SUMMARY

In one aspect, in general, the invention provides a new tracking technique that is essentially "sourceless" in that it can be used anywhere with no set-up of a source, yet it enables a wider range of virtual environment-style navigation and interaction techniques than does a simple head-orientation tracker, including manual interaction with virtual objects. The equipment can be produced at only slightly more than the cost of a sourceless orientation

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