Exhibit 10

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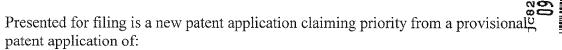
January 26, 2001

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Applicant: ERIC FOXLIN

Box Patent Application Commissioner for Patents Washington, DC 20231

Attorney Docket No.: 09970-006001

Title: SELF-REFERENCED TRACKING

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

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

Enclosures:

Postcard.

Under 35 USC (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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Commissioner for Patents January 26, 2001 Page 2

Basic filing fee	\$355
Total claims in excess of 20 times \$9	\$0
Independent claims in excess of 3 times \$40	\$0
Fee for multiple dependent claims	\$0
Total filing fee:	\$355

Under 37 CFR §1.53(f), no filing fee is being paid at this time.

If this application is found to be incomplete, or if a telephone conference would otherwise be helpful, please call the undersigned at (617) 542-5070.

Kindly acknowledge receipt of this application by returning the enclosed postcard.

Please send all correspondence to:

DAVID L. FEIGENBAUM Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110-2804

Respectfully submitted,

Lawrence K. Kolodney Reg. No. 43,807 Enclosures LKK/lja 20210311 doc

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Attorney's Docket No.: 09970-006001

APPLICATION

FOR

UNITED STATES LETTERS PATENT

TITLE: SELF-REFERENCED TRACKING

APPLICANT: ERIC. FOXLIN

CERTIFICATE OF MAILING BY EXPRESS MAIL

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Docket No.: 09970-006001

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.

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.

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.

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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