

Title (en)

ADAPTIVE TRACKING SYSTEM FOR SPATIAL INPUT DEVICES

Title (de)

ADAPTIVES TRACKING-SYSTEM FÜR VORRICHTUNGEN ZUR RÄUMLICHEN EINGABE

Title (fr)

SYSTÈME DE SUIVI ADAPTATIF POUR DISPOSITIFS D'ENTRÉE SPATIALE

Publication

EP 2724337 A1 20140430 (EN)

Application

EP 12802574 A 20120625

Priority

- US 201161500416 P 20110623
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- US 201213430626 A 20120326
- US 2012044080 W 20120625

Abstract (en)

[origin: WO2012178202A1] An adaptive tracking system for spatial input devices provides real-time tracking of spatial input devices for human-computer interaction in a Spatial Operating Environment (SOE). The components of an SOE include gestural input/output; network-based data representation, transit, and interchange; and spatially conformed display mesh. The SOE comprises a workspace occupied by one or more users, a set of screens which provide the users with visual feedback, and a gestural control system which translates user motions into command inputs. Users perform gestures with body parts and/or physical pointing devices, and the system translates those gestures into actions such as pointing, dragging, selecting, or other direct manipulations. The tracking system provides the requisite data for creating an immersive environment by maintaining a model of the spatial relationships between users, screens, pointing devices, and other physical objects within the workspace.

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