Medical Procedures Training System (MPTS)

Novel Medical Procedures Training System with Motion Detection and Interactive Software

Computer Aided Training and Monitoring
This integrated system enables computer-guided self-teaching, monitoring, and analysis of complex medical procedures.

Package
The system consists of a motion monitoring device and associated hardware and software. The program gives instructions on proper procedure while recording physical movements as compared to a pre-programmed optimum. The performance metrics are recorded for self-feedback, mentor monitoring, and documentation of proficiency. This system allows for a greater level of individual monitoring, especially in a large class. It also lets the instructor set up definitive goals for graduation, which enables the identification of students that need a higher level of instruction or lack the dexterity needed to practice.

Market
The target market is medical and dental teaching facilities to increase the opportunity for repetitive self-learning of complicated procedures acquired by repetitive practice. Additional markets include sports, workplace teaching, and safety monitoring.

Opportunity
EVMS is seeking sponsored research and/or licensing partners to commercialize this technology.

Intellectual Property
ID Number
234

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Field
Computer Aided Training

Technology
Medical Procedure Training and Monitoring using integrated Motion Detection

Key Benefits
- Higher degree of individual teaching and monitoring of complex procedures
- Self-teaching and immediate feedback
- Ability to set standards and monitor progress over time
- Documentation of training, proficiency, and compliance with set class goals
- Cost efficient

Stage of Development
Prototype

Status
Seeking licensing partner and/or sponsored research

Patent Status
PCTUS2013032191