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Riedel-Kruse

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(54) **GAMES HAVING BIOTECHNOLOGICAL CONTENT**

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(52) **U.S. Cl.**
USPC **463/1**; 434/273

(58) **Field of Classification Search**
USPC 434/276; 463/1
See application file for complete search history.

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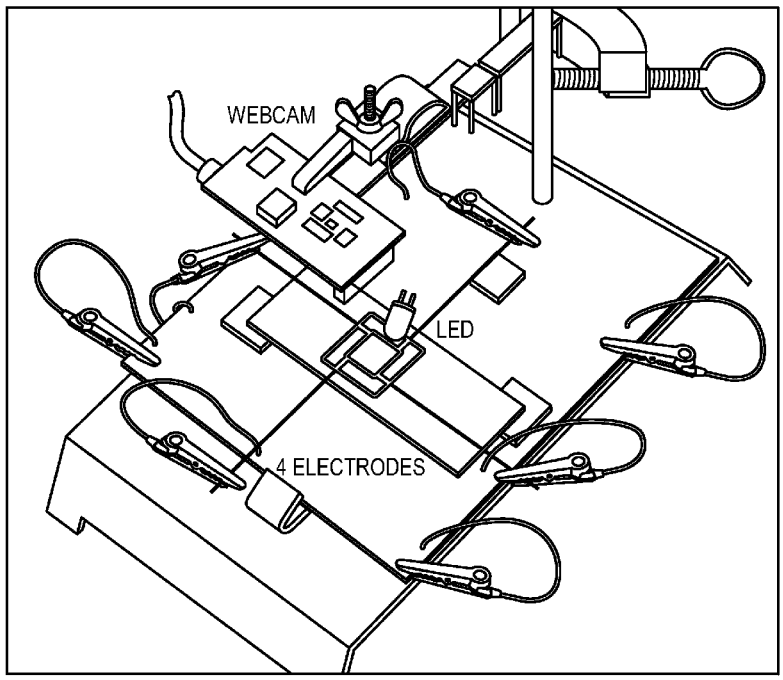
(57) **ABSTRACT**

Systems and methods for use in playing biotic games having a biologically active material as a component. Various games that provide for one or more human players to interact with biologically active materials are disclosed. The game apparatus includes a replaceable cartridge having a chamber in which a biologically active component such as a single-celled organism or a biologically active compound is contained. A stimulus controller accepts instructions from a human user and provides a stimulus to the biologically active component. A response receiver accepts a signal indicative of a response of the biologically active component. A display is provided to display to the user information indicative of the response of the biologically active component, and a game score. A computer-based game controller includes a set of pre-defined rules of play that define a game and that comprise pre-defined rules of scoring for the game.

17 Claims, 17 Drawing Sheets