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[54] **APPARATUS AND METHOD FOR SIMULATING BRONCHIAL RESISTANCE OR DILATION**

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### Related U.S. Application Data

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[51] **Int. Cl.<sup>6</sup> ..... G09B 23/28**

[52] **U.S. Cl. .... 434/265; 434/262**

[58] **Field of Search ..... 434/262, 265-268, 434/272, 275; 128/774; 251/251, 205, 208**

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### [57] ABSTRACT

An apparatus and method for simulating bronchial resistance or dilation in real time in an integrated patient simulator during simulated medical procedures is realized by a manikin having a simulated trachea and a simulated lung, a conduit interconnecting the simulated trachea and the simulated lung for propagating a flow of gas, and a restricting device for variably restricting the flow of gas through the conduit. The restricting device includes a nautilus shaped cam and a stepper motor for rotating the cam such that a selected surface of the cam is disposed within an opening in the conduit so as to continuously vary the size of the opening.

**10 Claims, 7 Drawing Sheets**

