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(54) **PATIENT SIMULATOR MANIKIN AND SYSTEM**

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(58) **Field of Classification Search** 434/126, 434/262, 267, 268, 272
See application file for complete search history.

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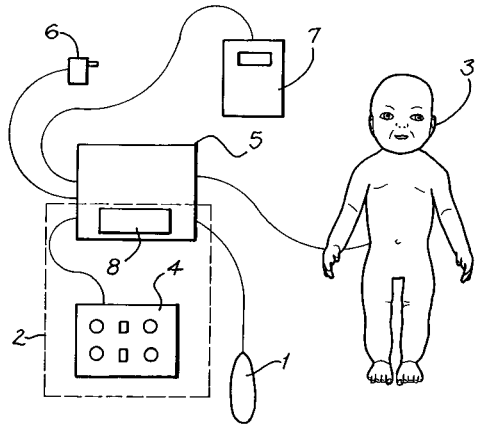
(57) **ABSTRACT**

A system (**100**) for simulating a fluid flow condition within a fluid carrying body cavity includes an elastically deformable bladder (**101**) simulating the body cavity and mounted to the body of a patient simulator manikin (**3**). An inlet tube (**102**) communicates a pressurised fluid supply (**1**) with the bladder (**101**). A solenoid valve (**103**) enables/disables flow of fluid through the inlet tube (**102**). The solenoid valve (**103**) is controlled by a control means (**2**) based on the simulated fluid flow condition. An inlet flow restrictor (**106**) restricts flow of fluid through the inlet tube (**102**). An outlet flow restrictor (**105**) is associated with an outlet (**104**) for restricting flow of fluid through the outlet to atmosphere. A simulator is also disclosed comprising a manikin (**3**) and various fluid flow simulation systems associated with the manikin (**3**) for simulating a lung respiratory rate, blood pulse rate and blood pressure.

30 Claims, 4 Drawing Sheets