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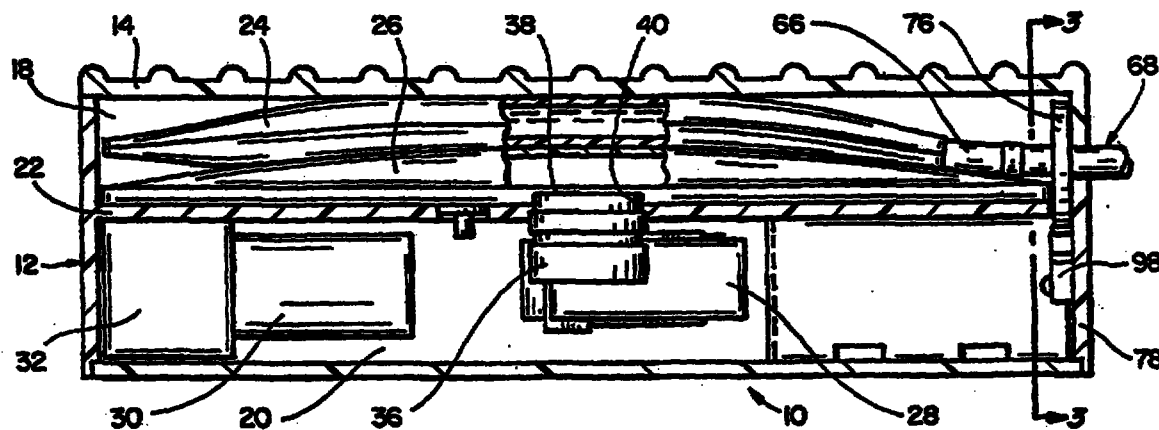
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(57) Abstract

An infusion pump (10) for infusing solutions from IV bags through tubing to patients. The pump (10) comprises a compartmented housing which receives an IV bag (24) in a solution-dispensing position. The bag (24) is placed over a bladder (26) within the compartment (18, 20), and the bladder (26) is expanded by a pressurized fluid to apply a pushing force against the bag (24) which collapses to infuse solution through the tubing. A pump (28) in the housing pumps a fluid such as air into the bladder (26) under influence of a control circuit (34). A pressure sensor (36) indirectly senses pressure of fluid in the bladder through a push of pad (38) which contacts the bladder wall. A control circuit (34) generates a pressure signal responsive to movement of the pressure pad (38) for operating a valve (30) which directs fluid between the pump and bladder. A dispensing spike (68) is provided for interconnecting a dispensing port (64) of the bag in fluid communication with the tubing.