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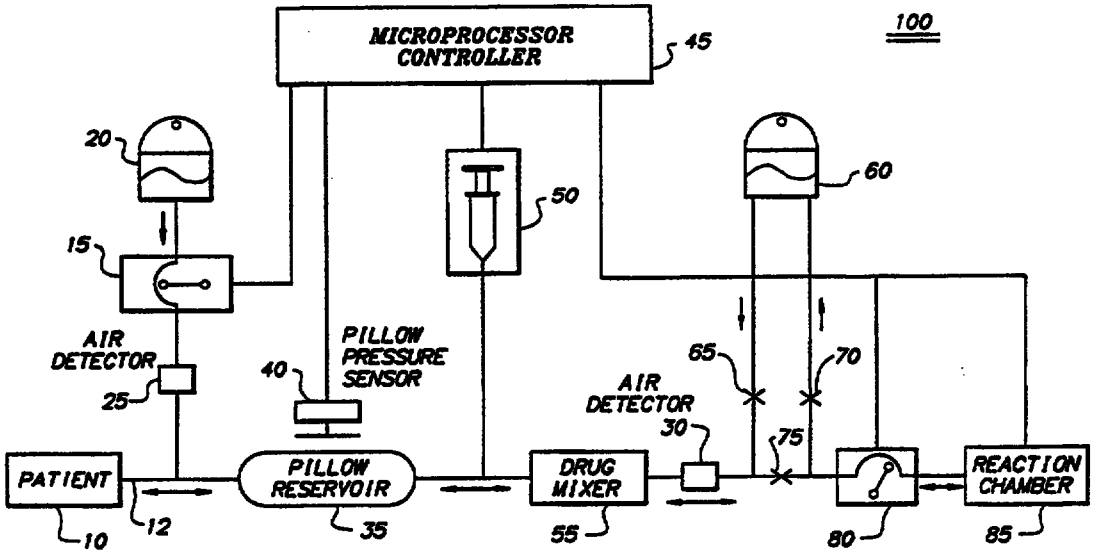
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(54) Title: ON-LINE DRUG DELIVERY SYSTEM IN EXTRACORPOREAL THERAPY



(57) Abstract

A preferred patient blood treatment system and method for the photoactivation of reagents in contact with a patient's blood achieves a well-mixed and accurate drug concentration in extracorporeal therapy. The preferred drug delivery system of the present invention comprises specially designed components and a microprocessor control system including a syringe pump, drug mixer and a reaction chamber, whereby the microprocessor control system monitors patient blood flow and regulates the system components to deliver the desired drug concentration to the reaction chamber maximizing the effectiveness of extracorporeal therapy.