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(54) **RUBIDIUM ELUTION SYSTEM CONTROL**

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(57) **ABSTRACT**

A method of controlling an $^{82}Sr/^{82}Rb$ elution system having a generator valve for proportioning a flow of saline solution between an $^{82}Sr/^{82}Rb$ generator and a bypass line coupled to an outlet of the generator such that saline solution traversing the bypass line will merge with eluted saline solution emerging from the generator to provide an active saline solution. During each elution run, a plurality of successive concentration parameter values are obtained at predetermined intervals. Each concentration parameter value is indicative of a respective instantaneous activity concentration of the active saline solution. Respective error values between each concentration parameter value and a target activity concentration value of the elution run are computed. Error data based on a plurality of the computed error values is accumulated. Between successive elution runs, at least one performance parameter of the elution system is adjusted based on the accumulated error data.
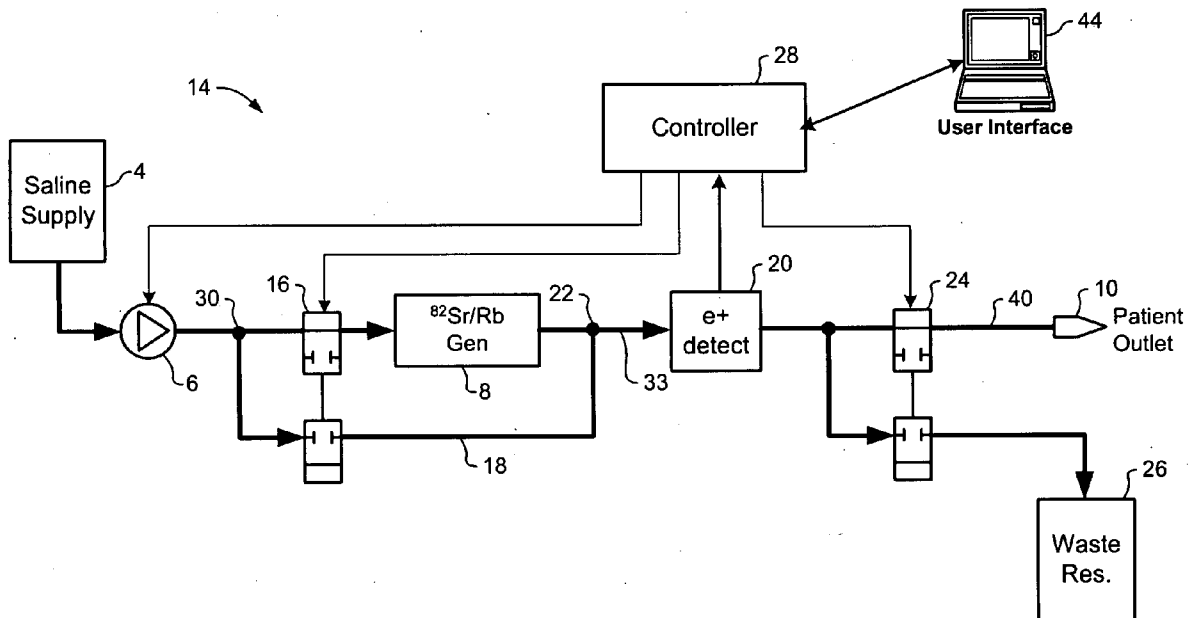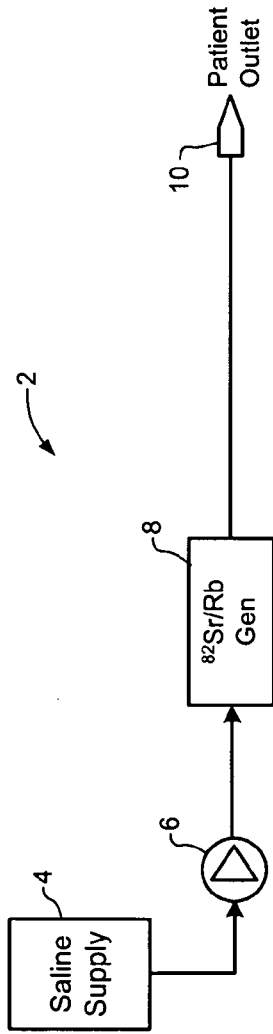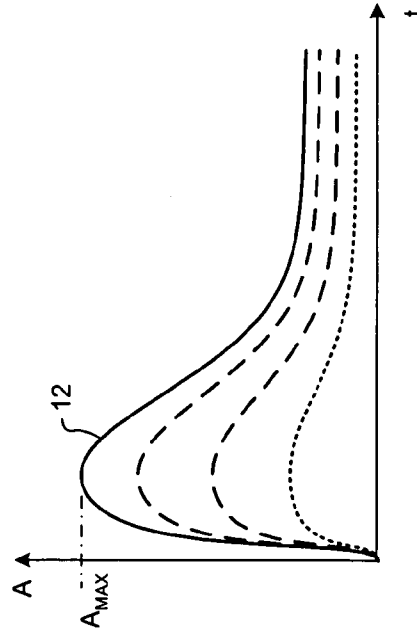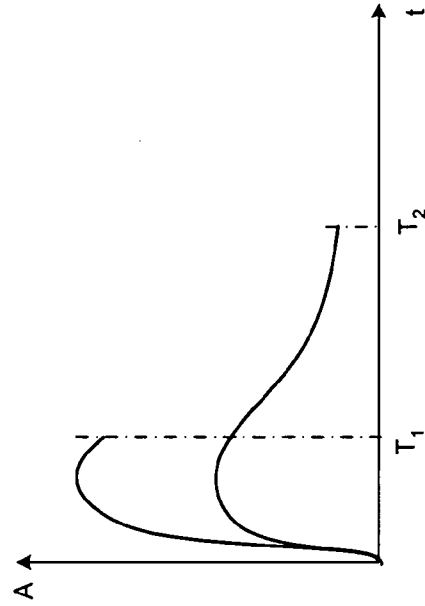
Figure 1a
(Prior Art)
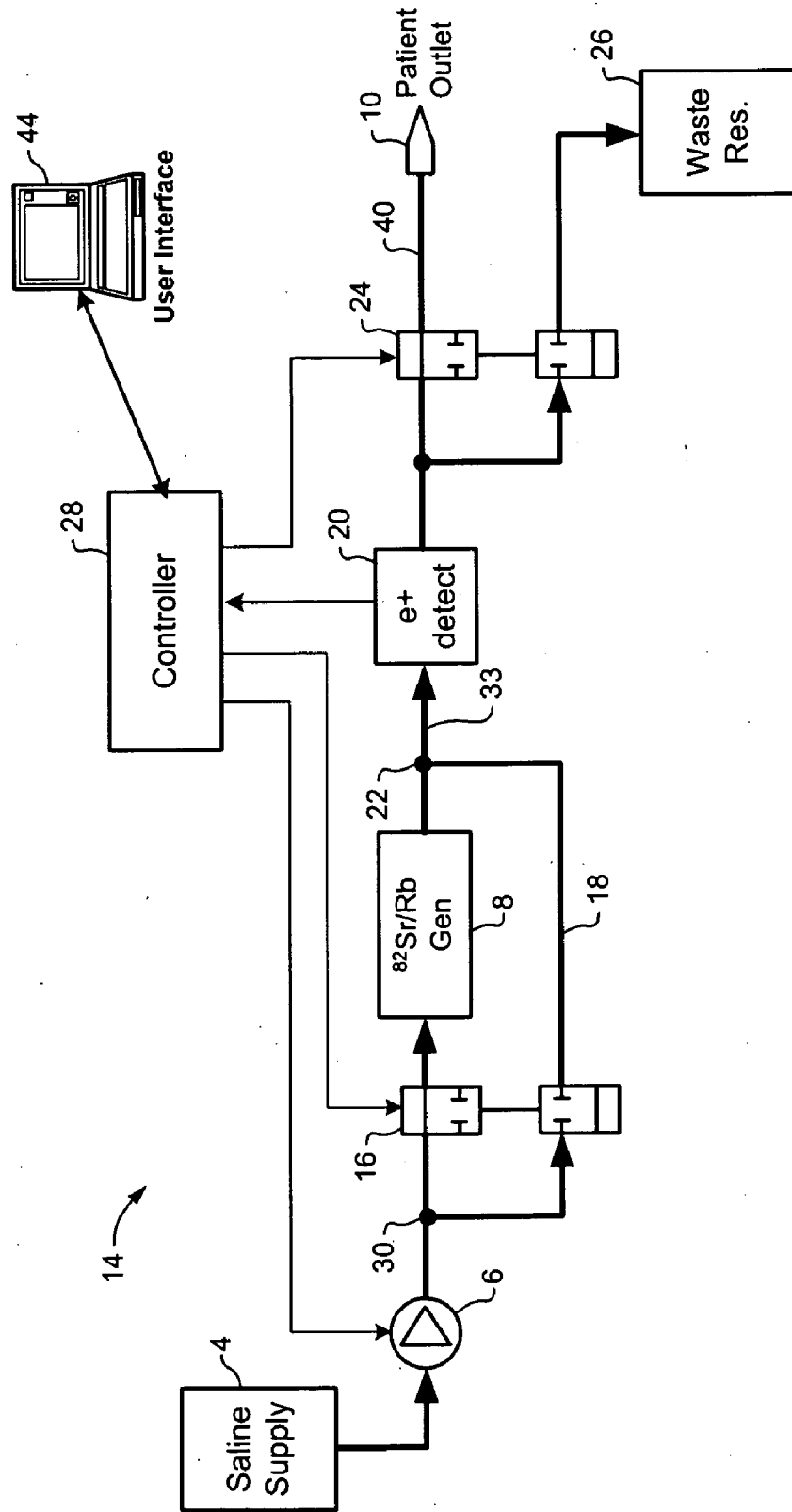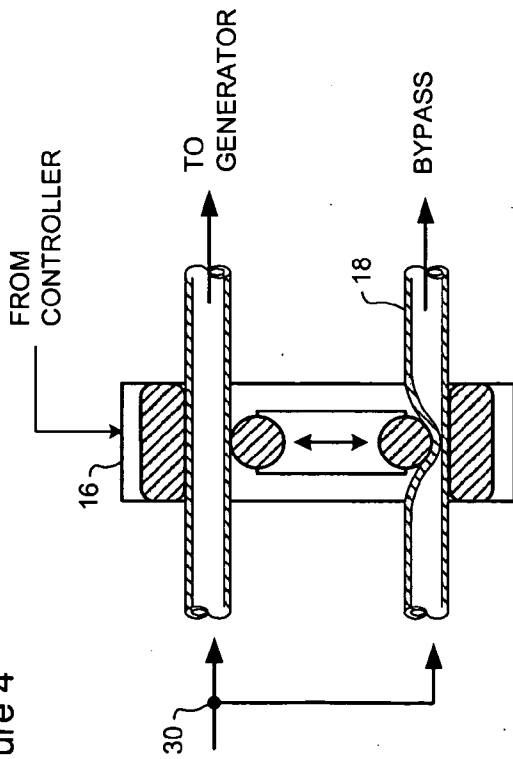

Figure 2a
(Prior Art)

Figure 2b
(Prior Art)

Figure 3

Figure 5

Figure 4
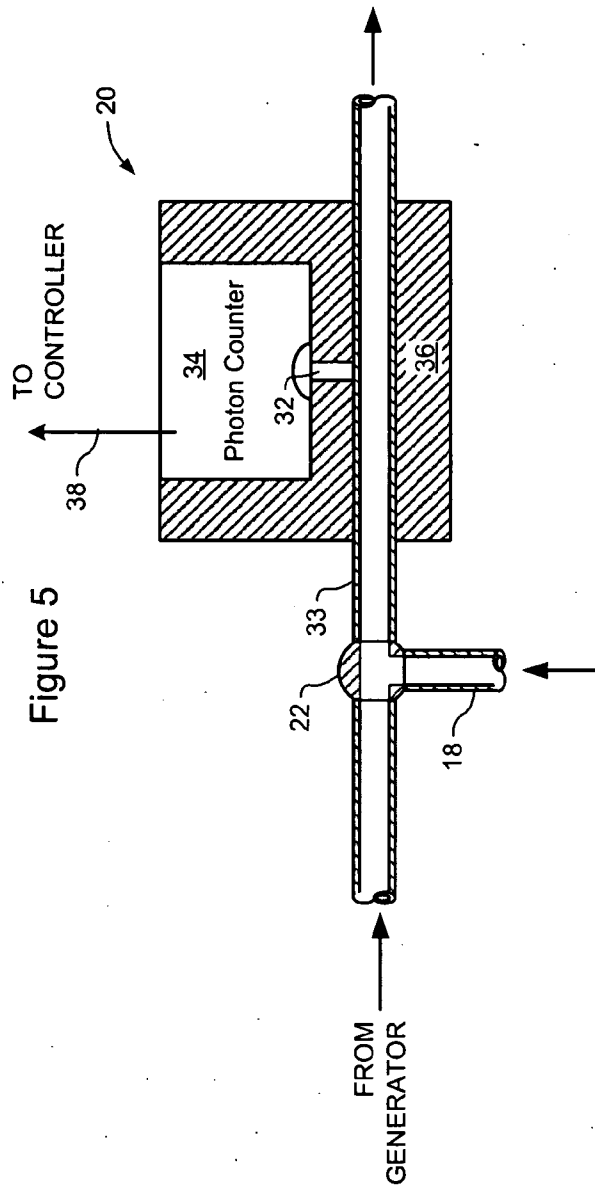
Figure 6a

Figure 6b

Figure 6c

DOCKET ALARM
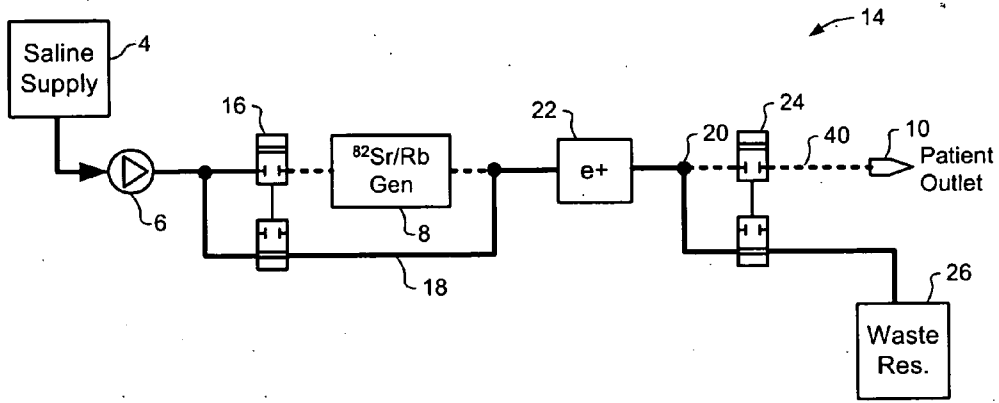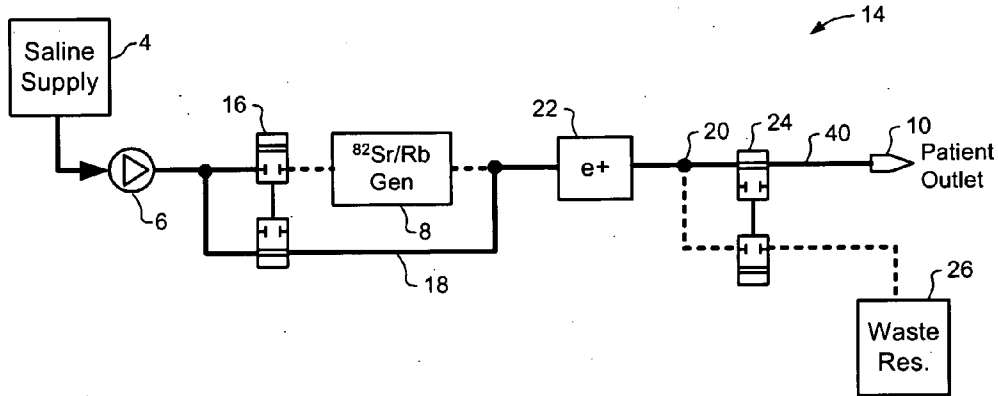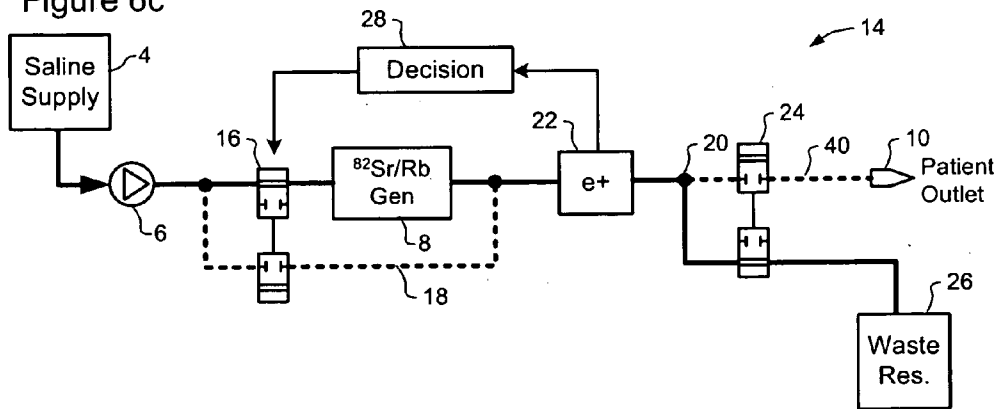
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