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(54) **RUBIDIUM GENERATOR FOR CARDIAC
PERFUSION IMAGING AND METHOD OF
MAKING AND MAINTAINING SAME**

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(57) ABSTRACT

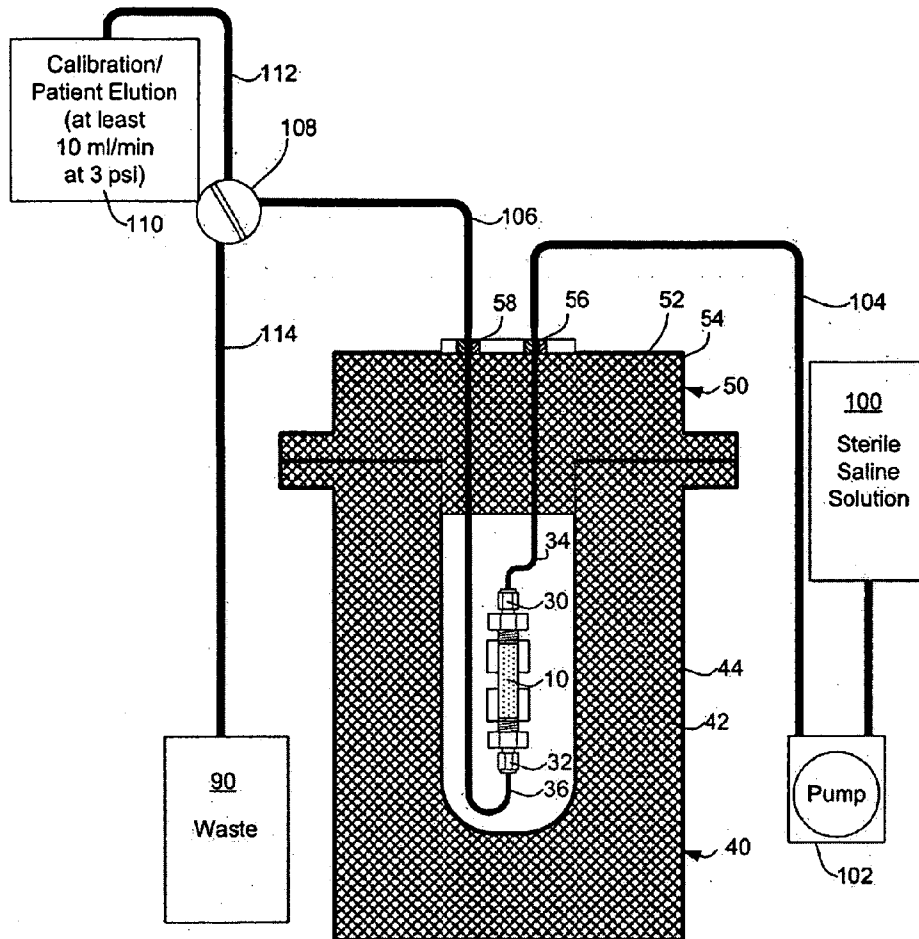
An ⁸²Sr/⁸²Rb generator column is made using a fluid impervious cylindrical container having a cover for closing the container in a fluid tight seal, and further having an inlet for connection of a conduit for delivering a fluid into the container and an outlet for connection of a conduit for conducting the fluid from the container. An ion exchange material fills the container, the ion exchange material being compacted within the container to a density that permits, the ion exchange material to be eluted at a rate of at least 5 ml/min at a fluid pressure of 1.5 pounds per square inch (10 kPa). The generator column can be repeatedly recharged with ⁸²Sr. The generator column is compatible with either three-dimensional or two-dimensional positron emission tomography systems.

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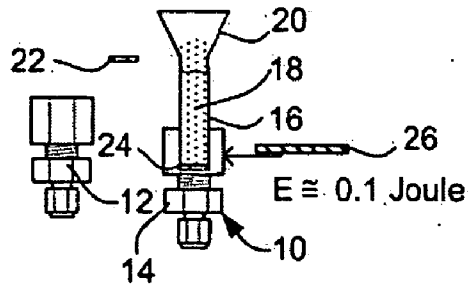


FIG. 1

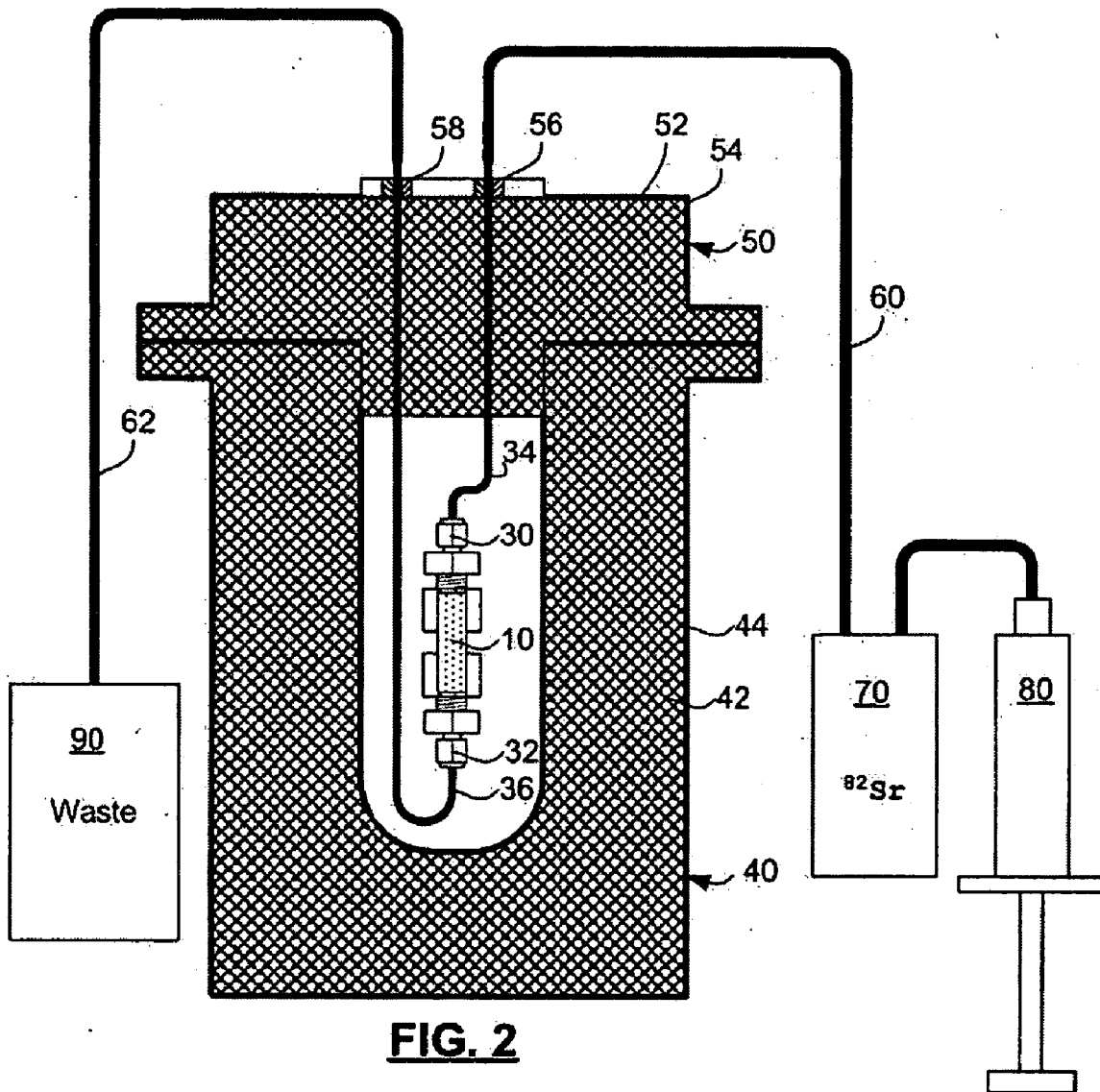


FIG. 2

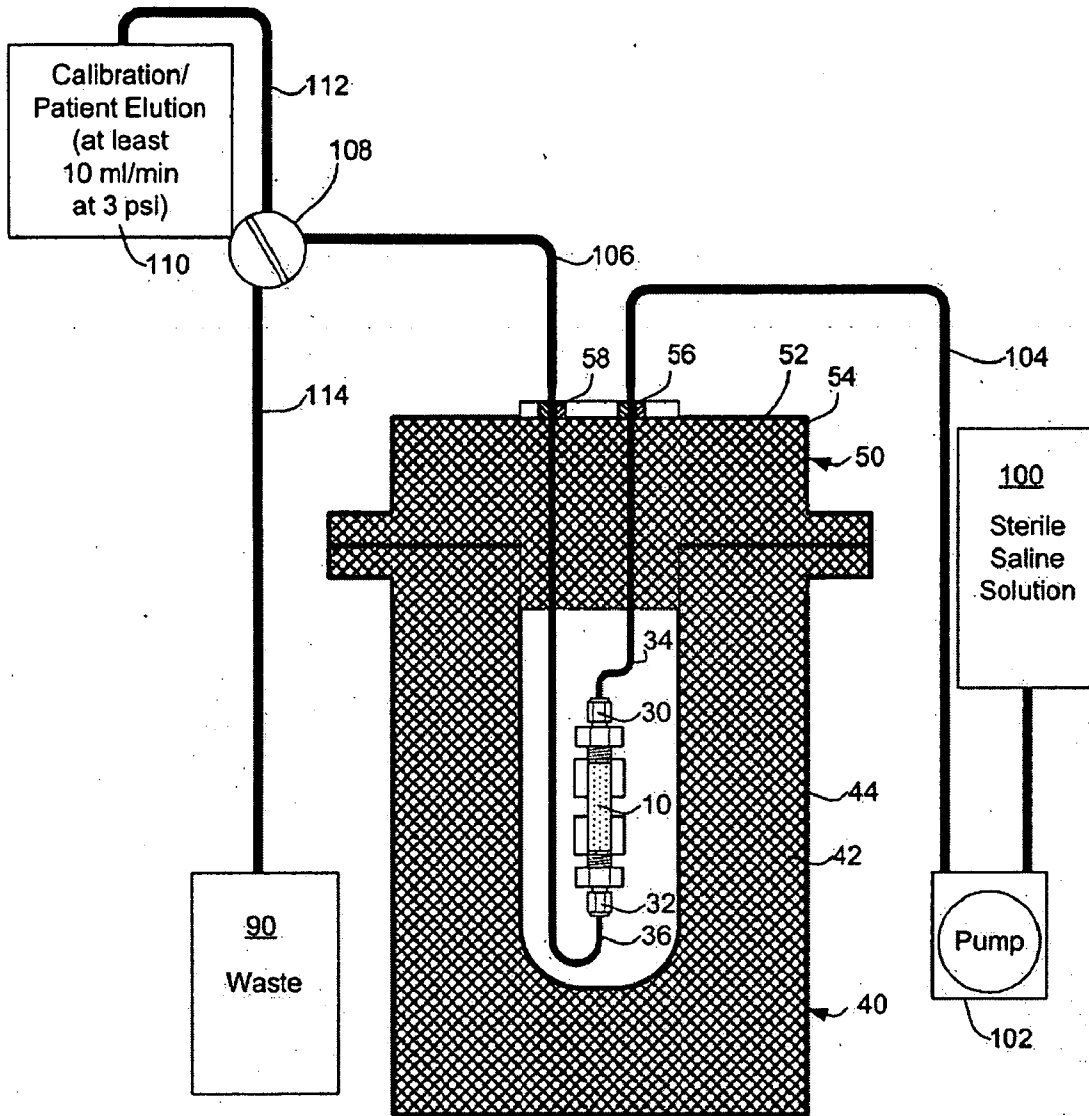


FIG. 3

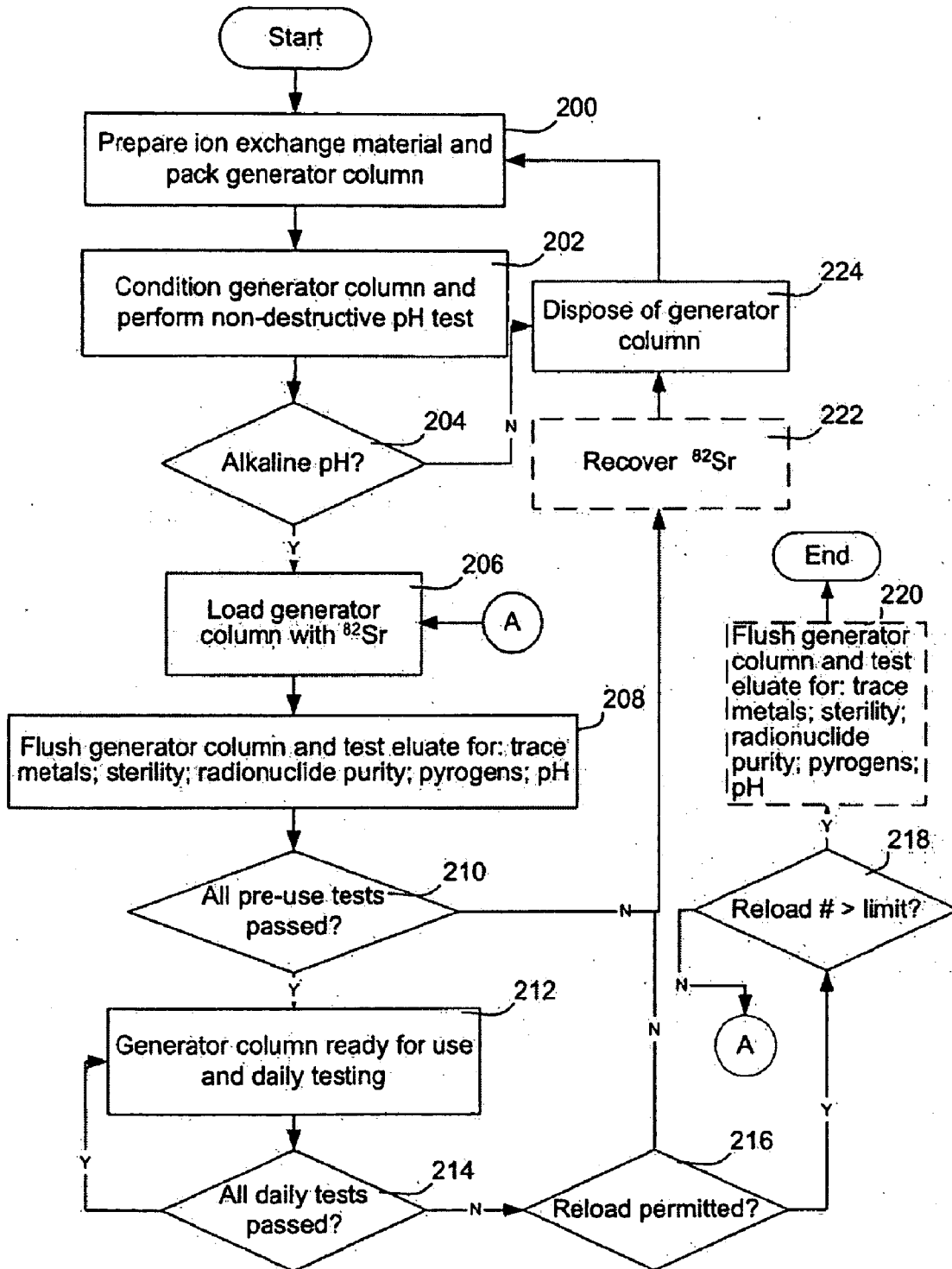


FIG. 4

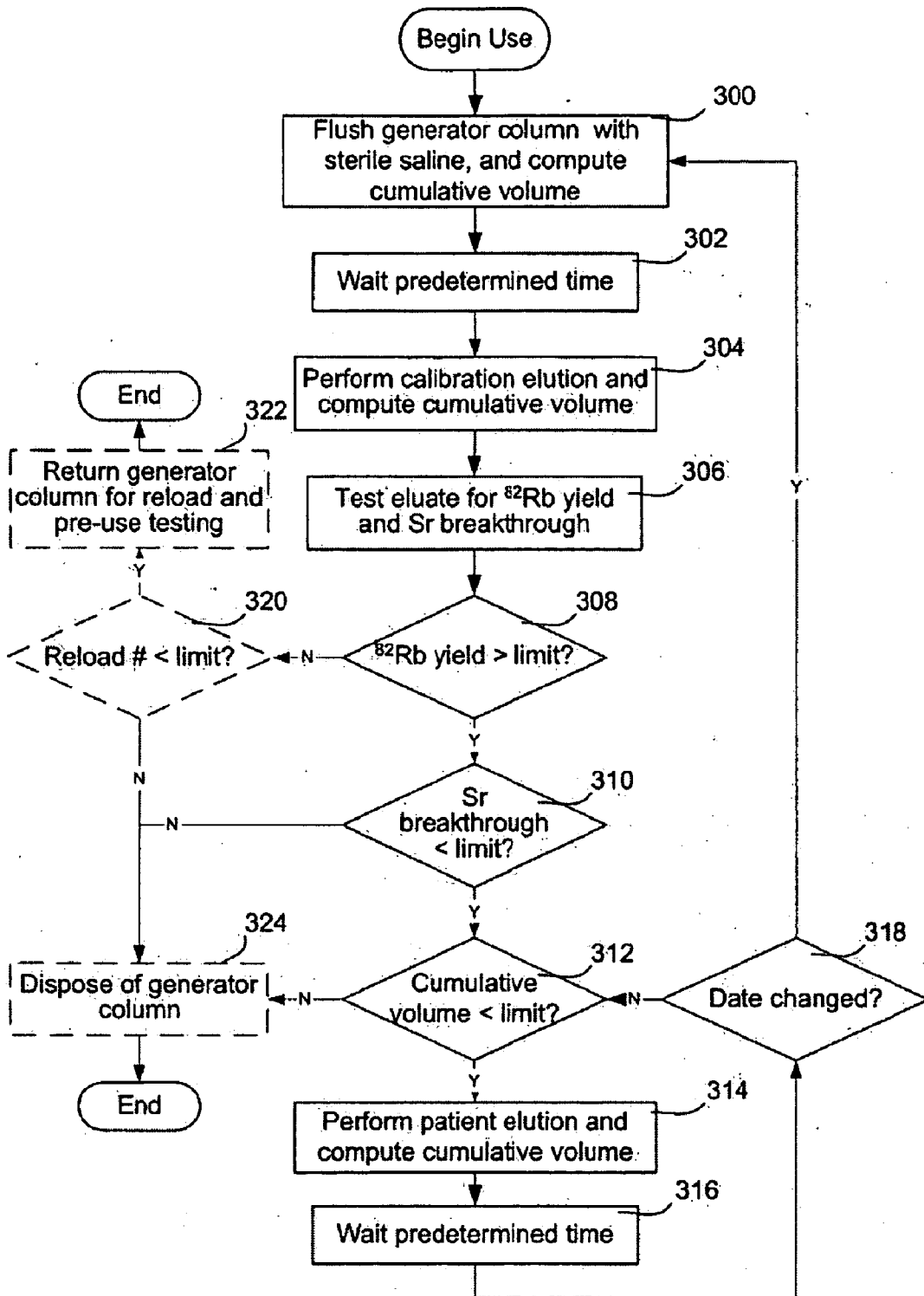


FIG. 5

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