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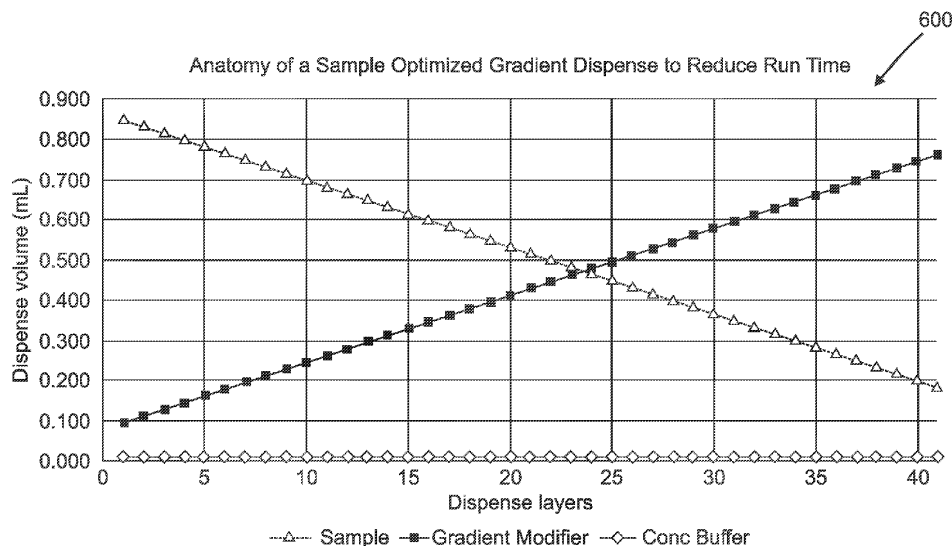
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(54) Title: DENSITY GRADIENT FORMATION WITH SAMPLE PARTICLES

**FIG. 6**



(57) Abstract: A system for dispensing a density gradient in a container is described. The system pumps a volume of sample particles and a density modifier into a mixing chamber in fluid communication with a proximal end of a probe. The mixing chamber mixes the sample particles and the density modifier together to at least partially form the density gradient. The system dispenses the density gradient through a distal end of the probe into the container. The density gradient varies in density between first and second ends, and at least a portion of the density gradient between the first and second ends includes a dispensed volume of the sample particles.

[Continued on next page]

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