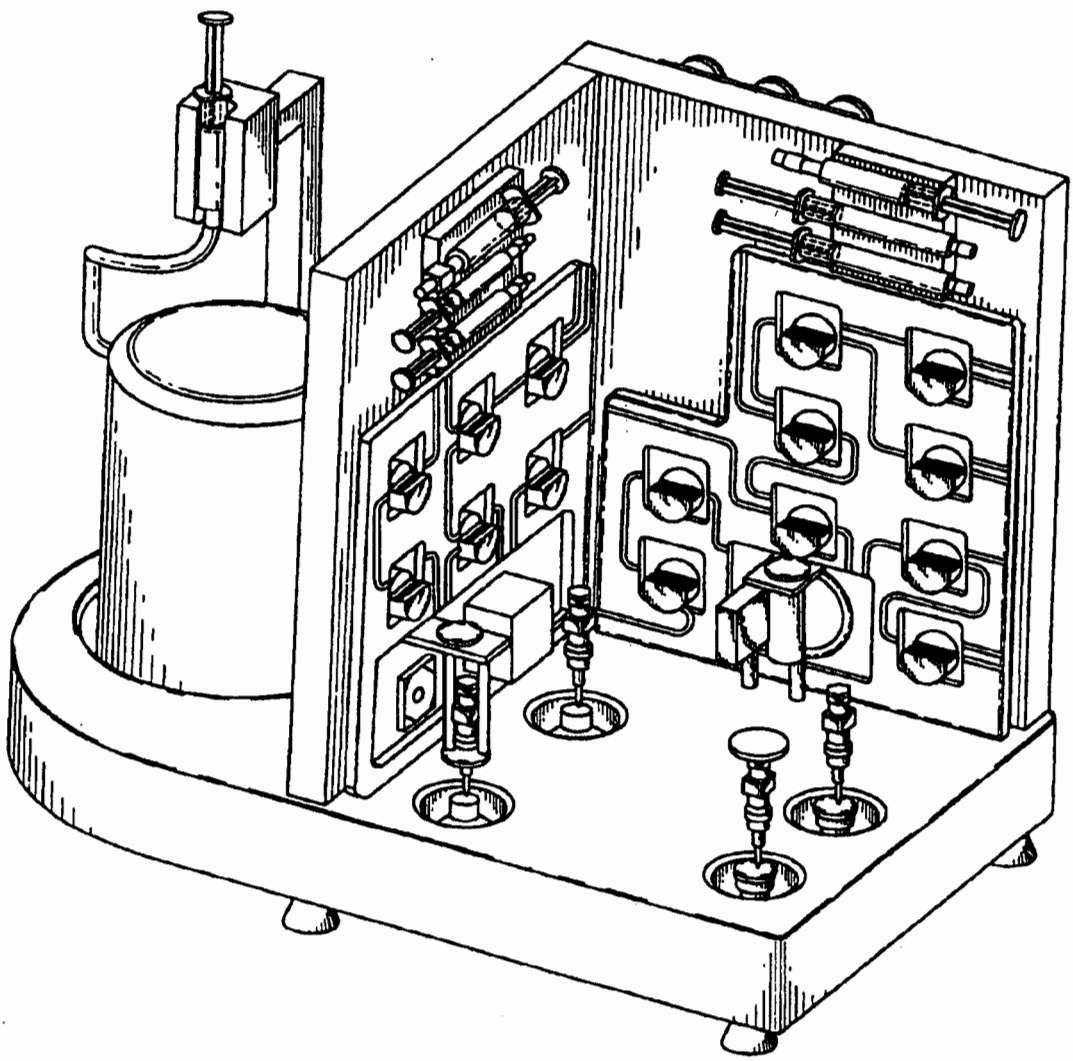


FIG. 1

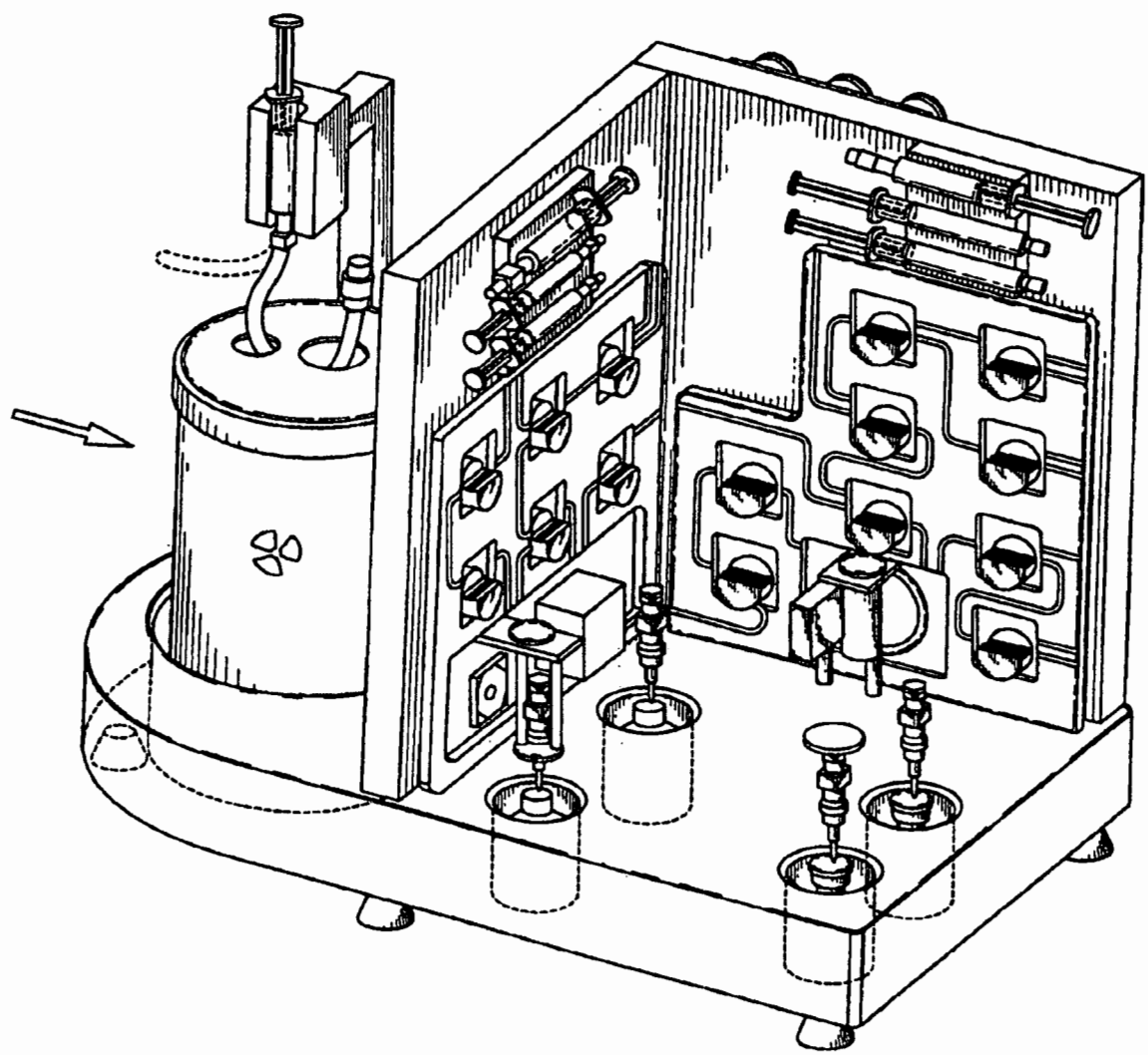


FIG. 2

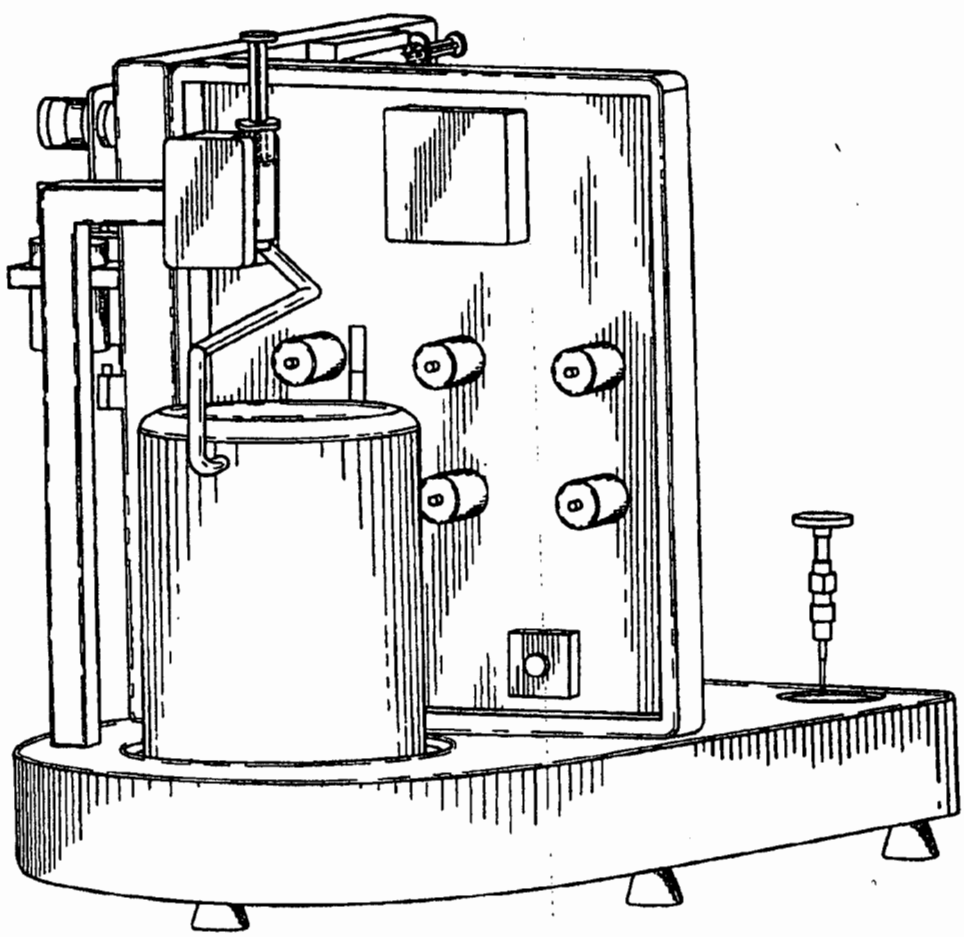


FIG. 3

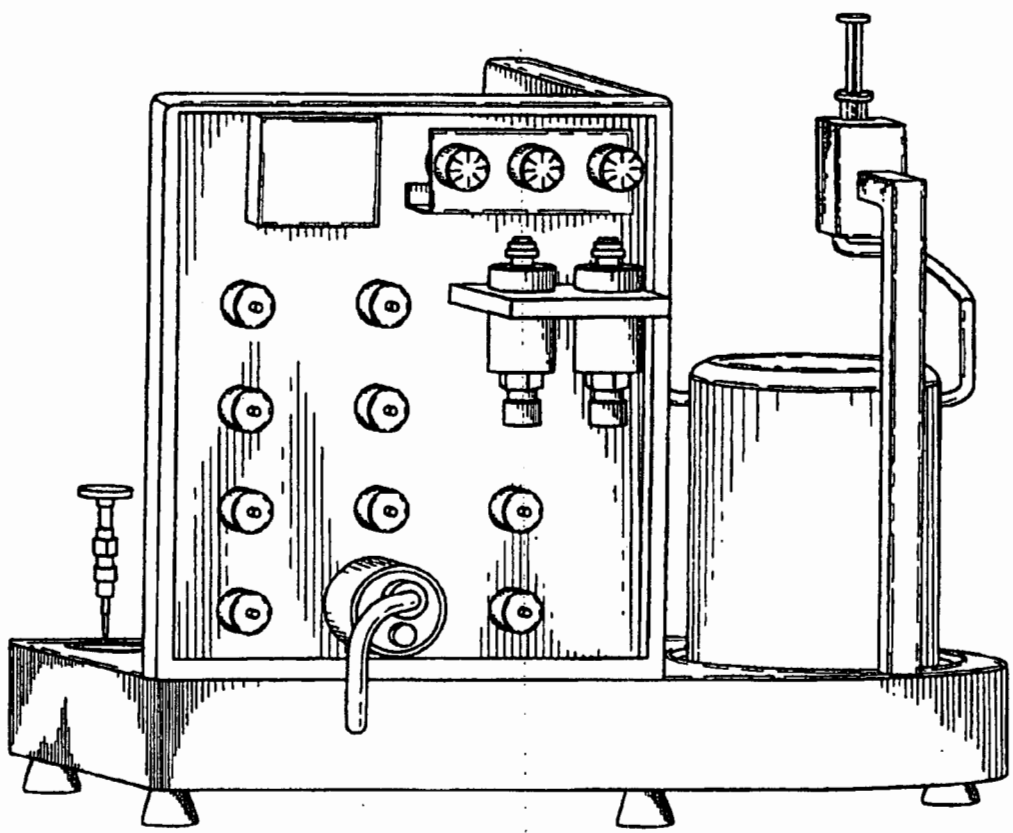


FIG. 4

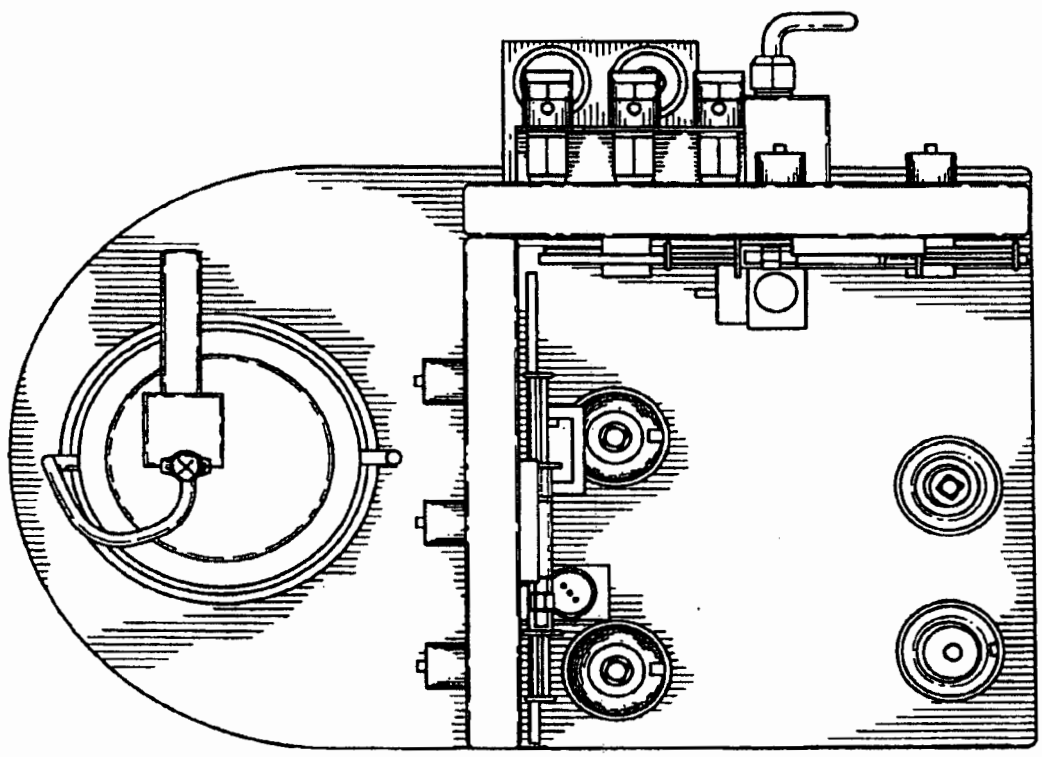


FIG. 5

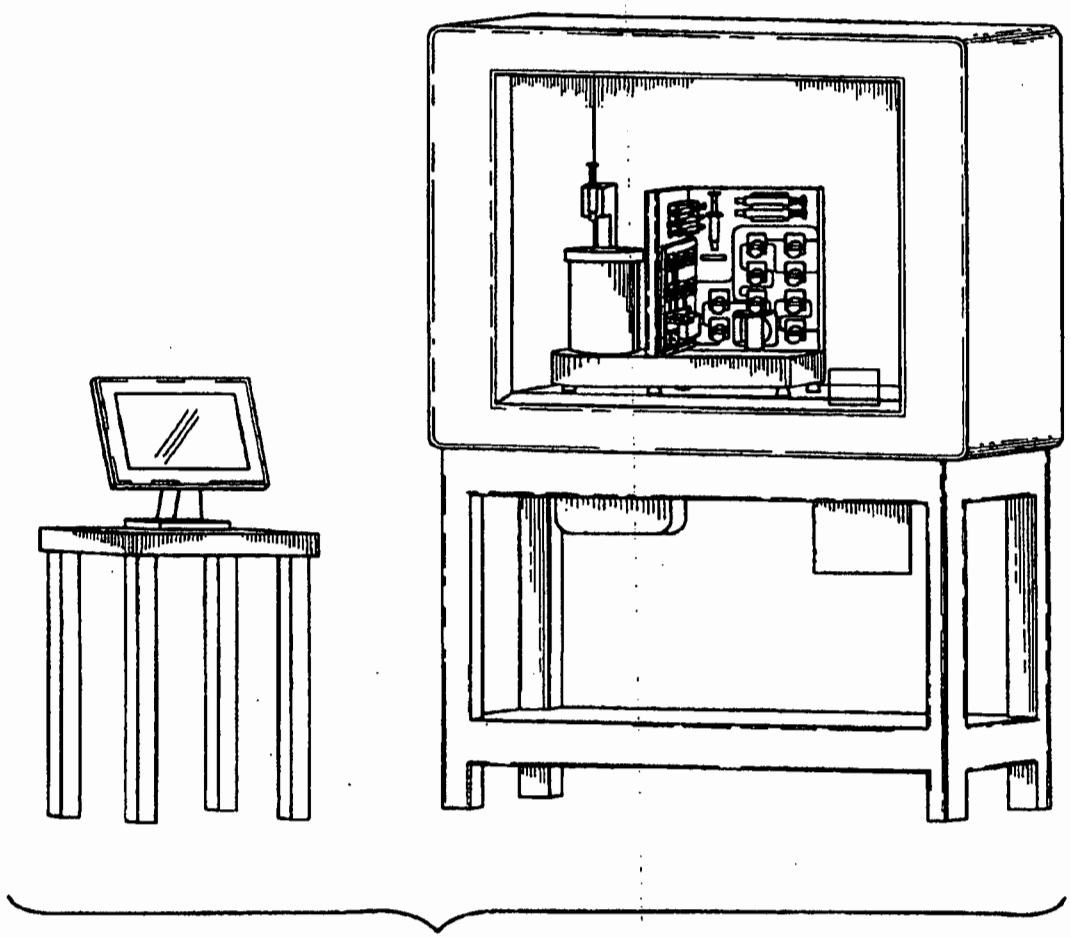


FIG. 6

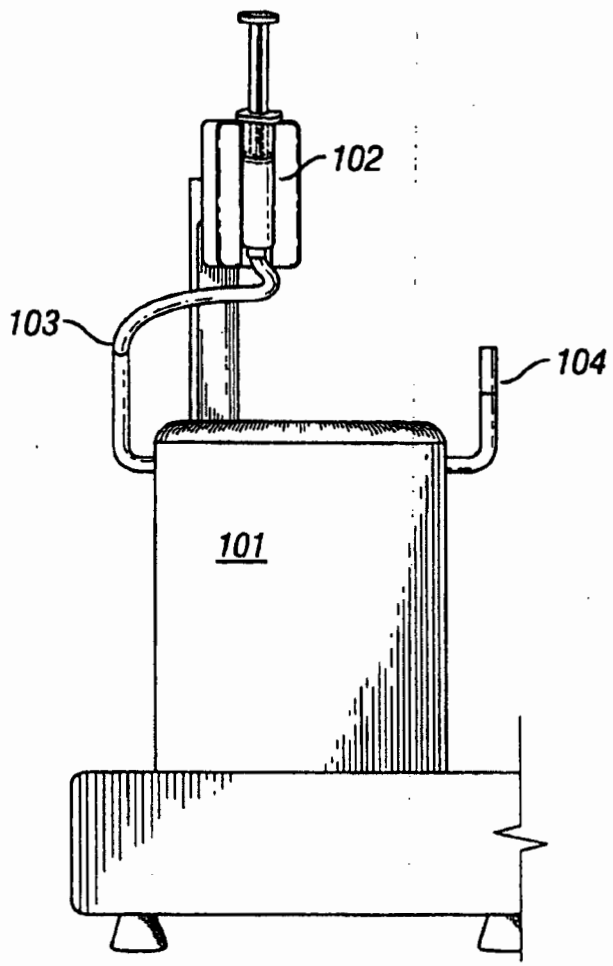


FIG. 7

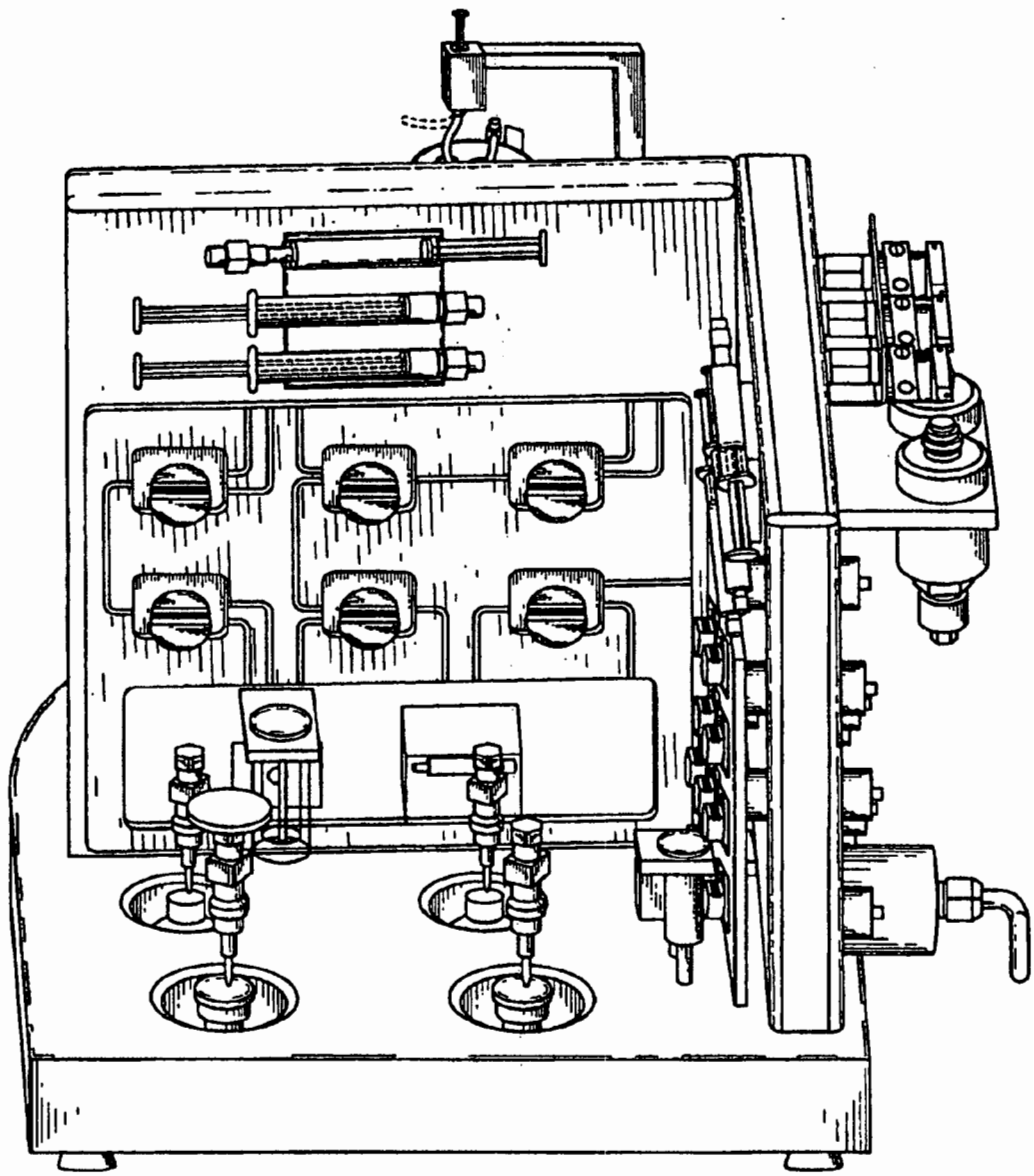


FIG. 8A

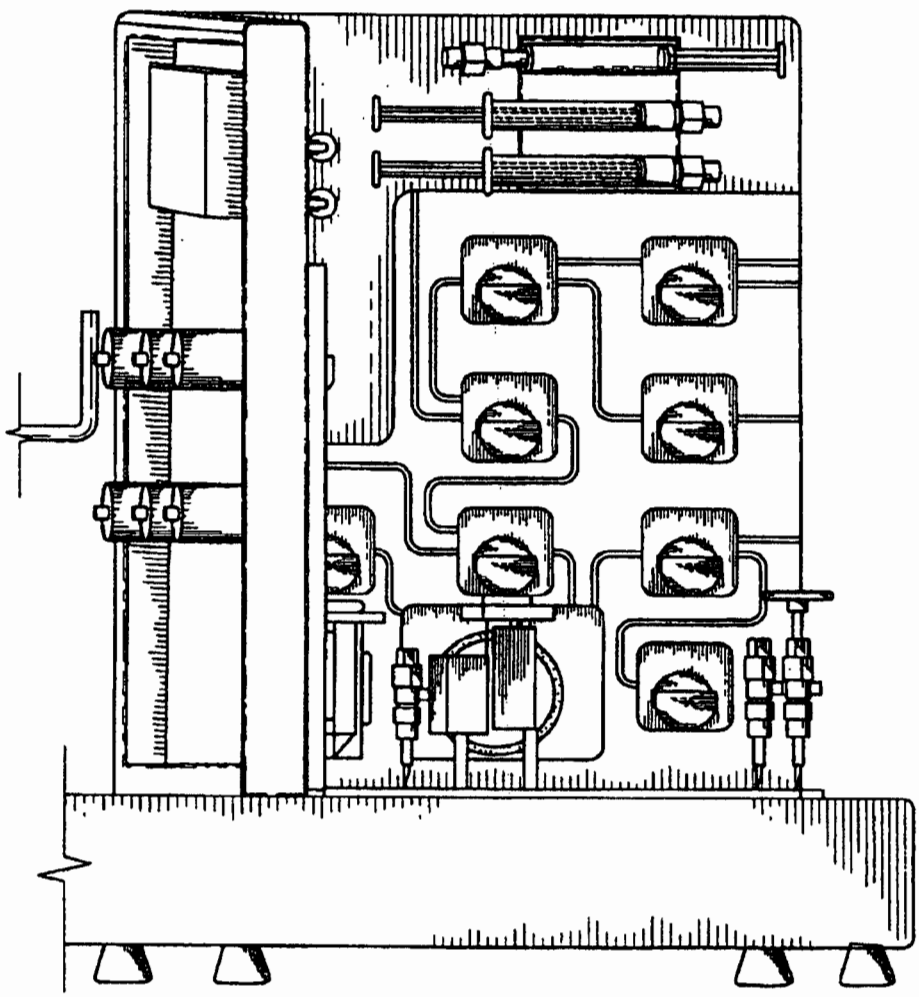


FIG. 8B

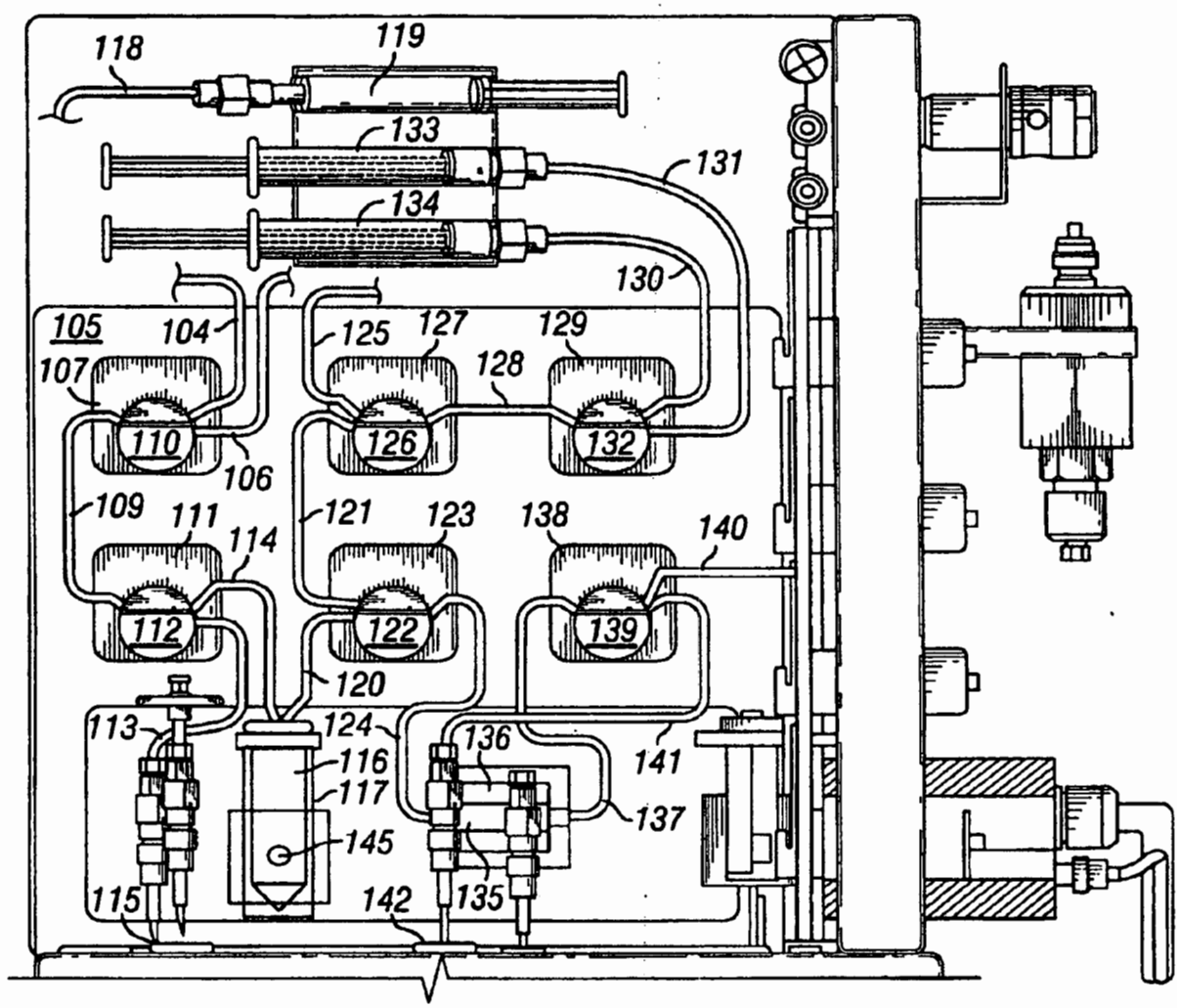

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FIG. 9

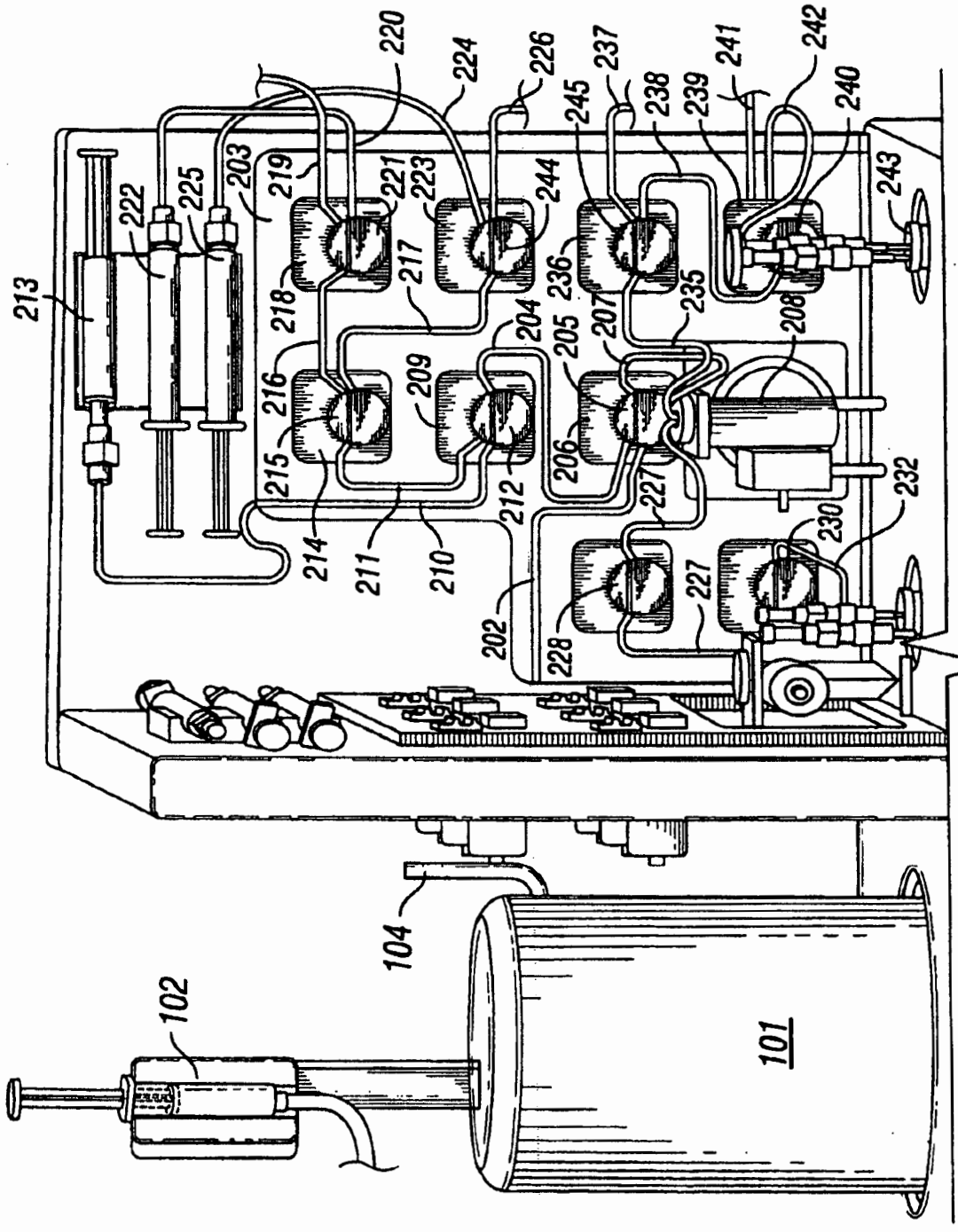

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FIG. 10

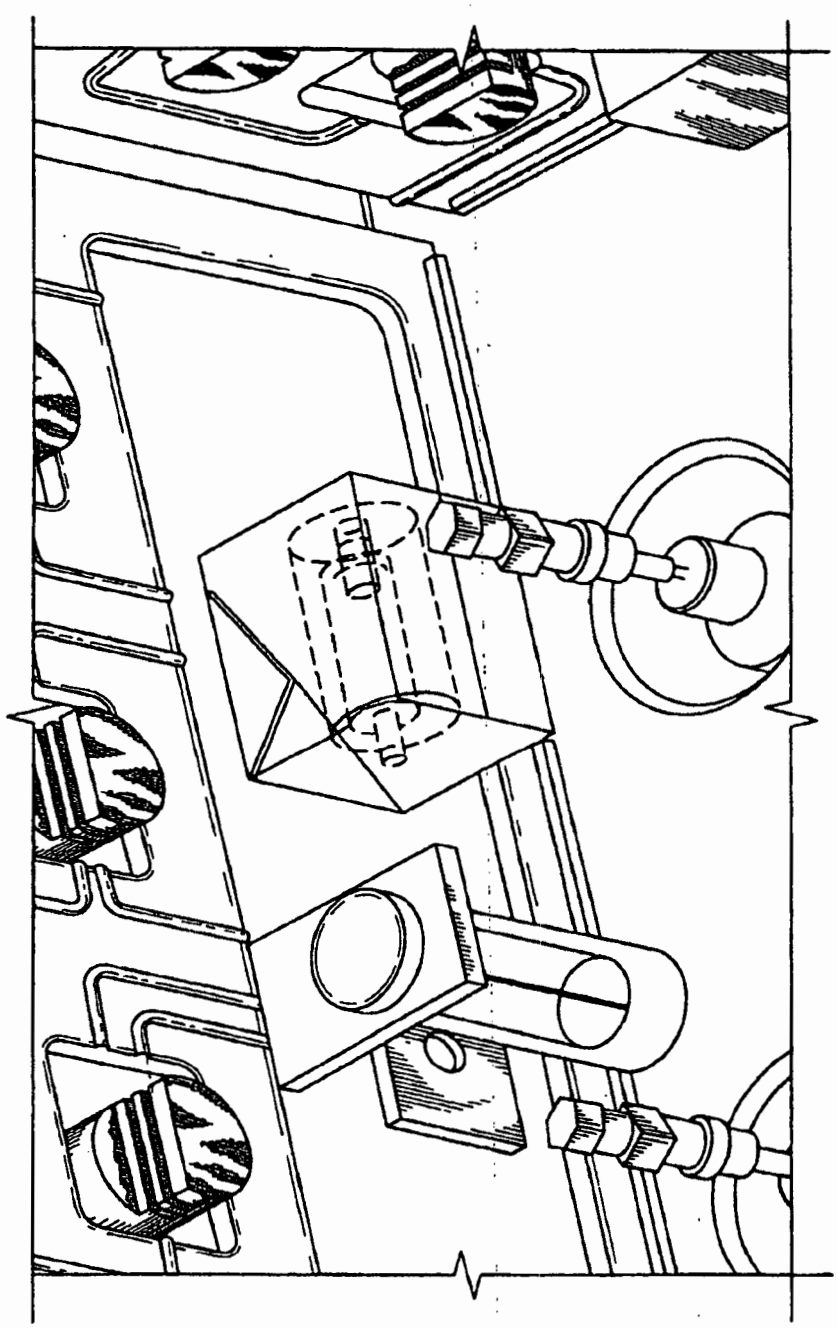


FIG. 11

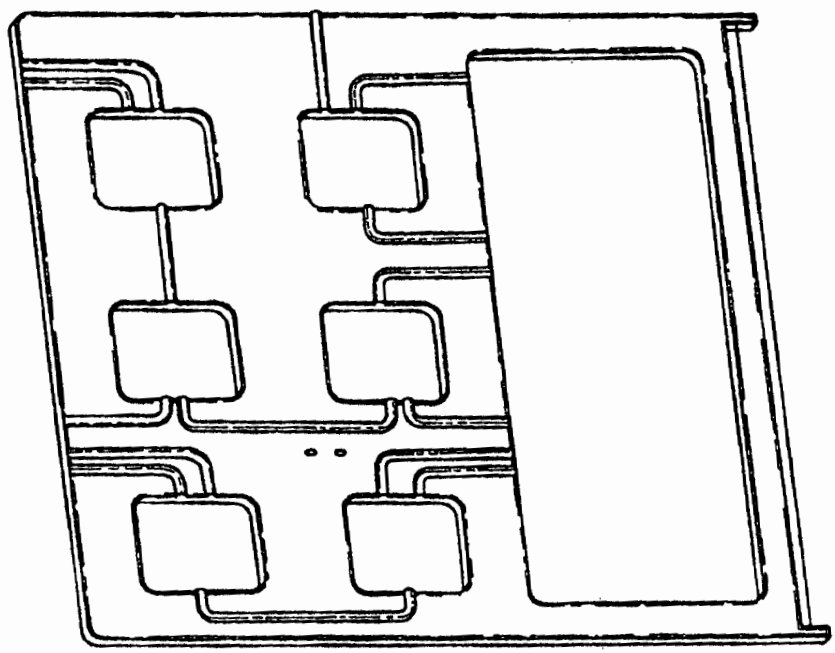


FIG. 12B

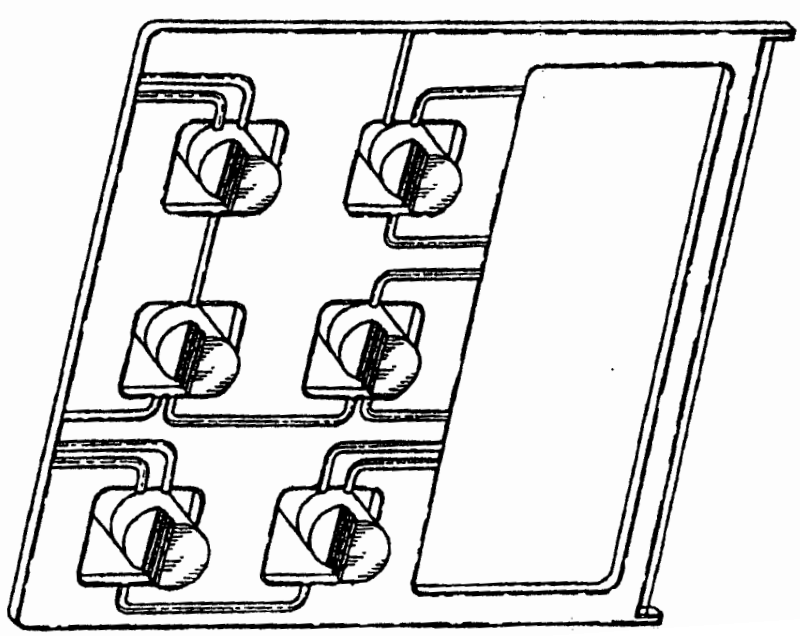


FIG. 12A

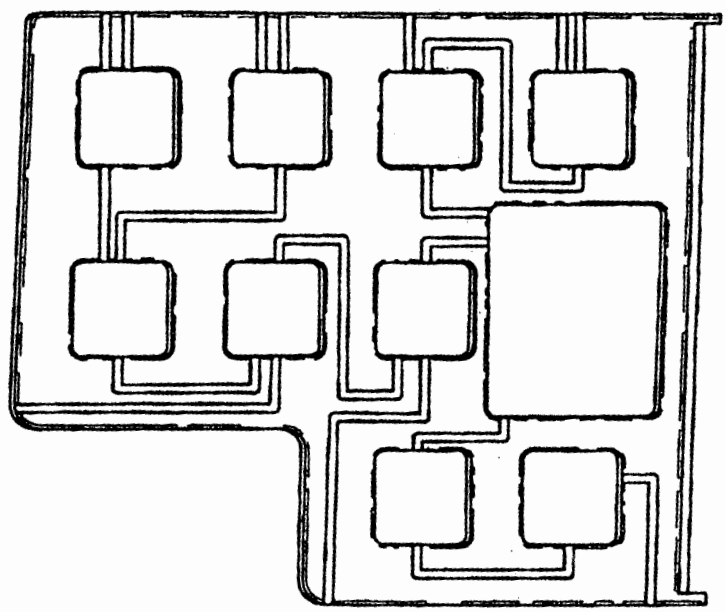


FIG. 13B

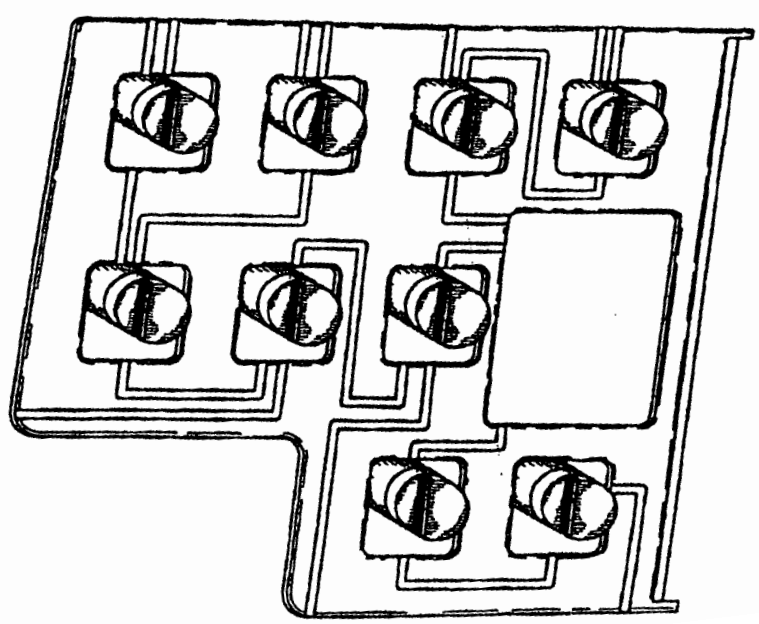


FIG. 13A

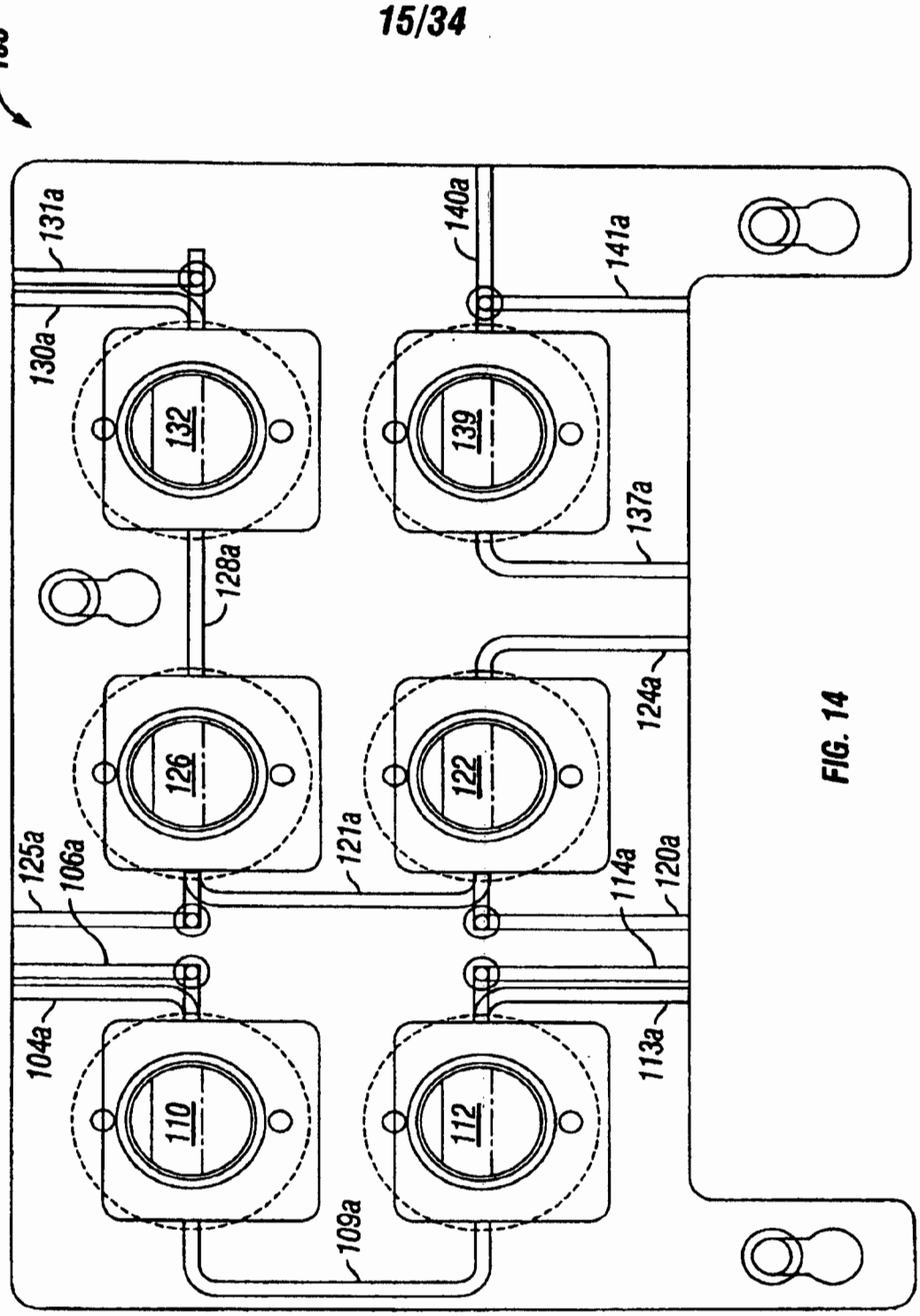

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FIG. 14

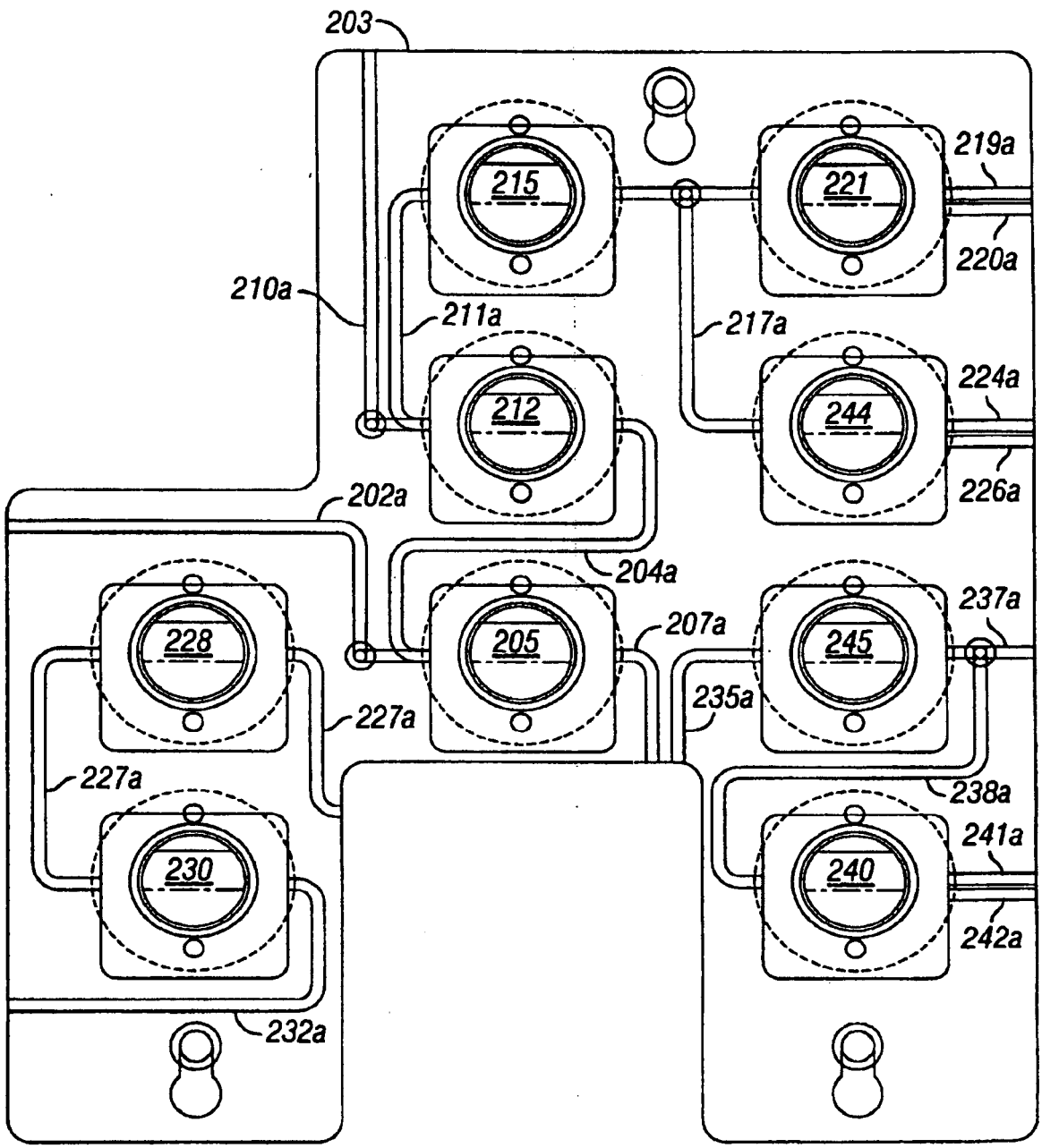
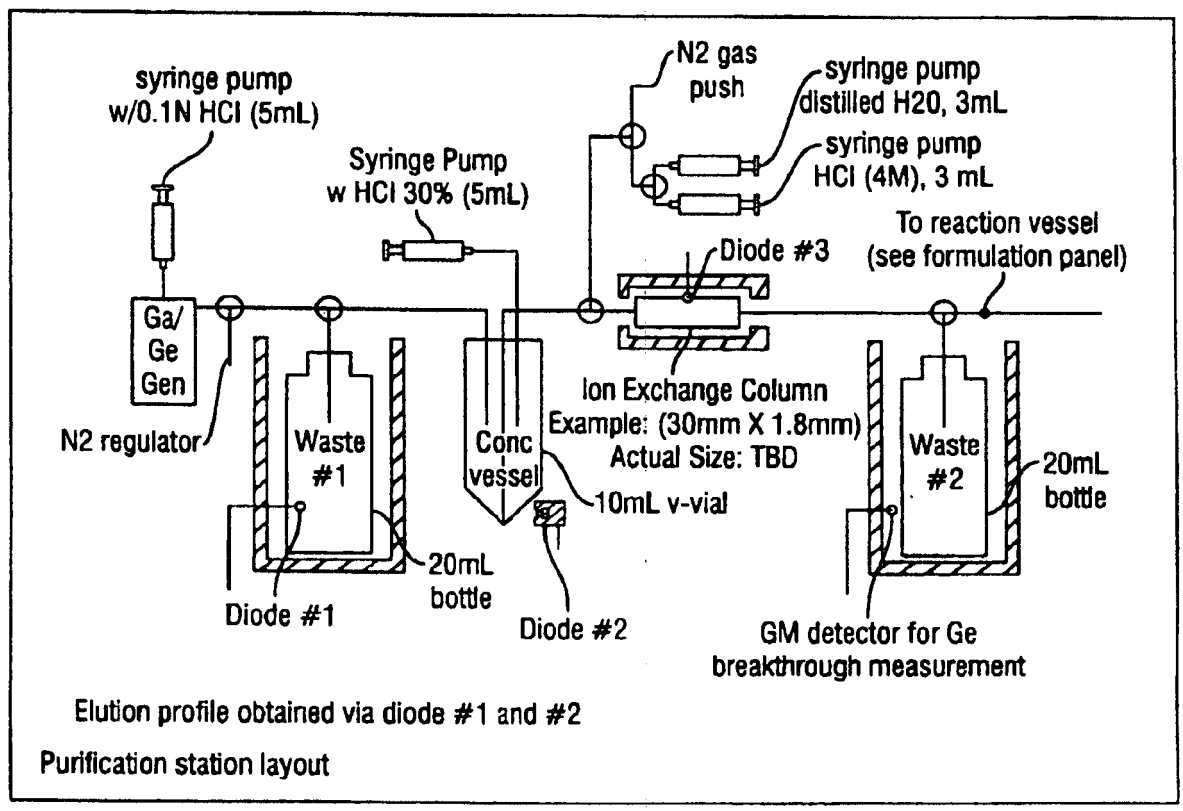

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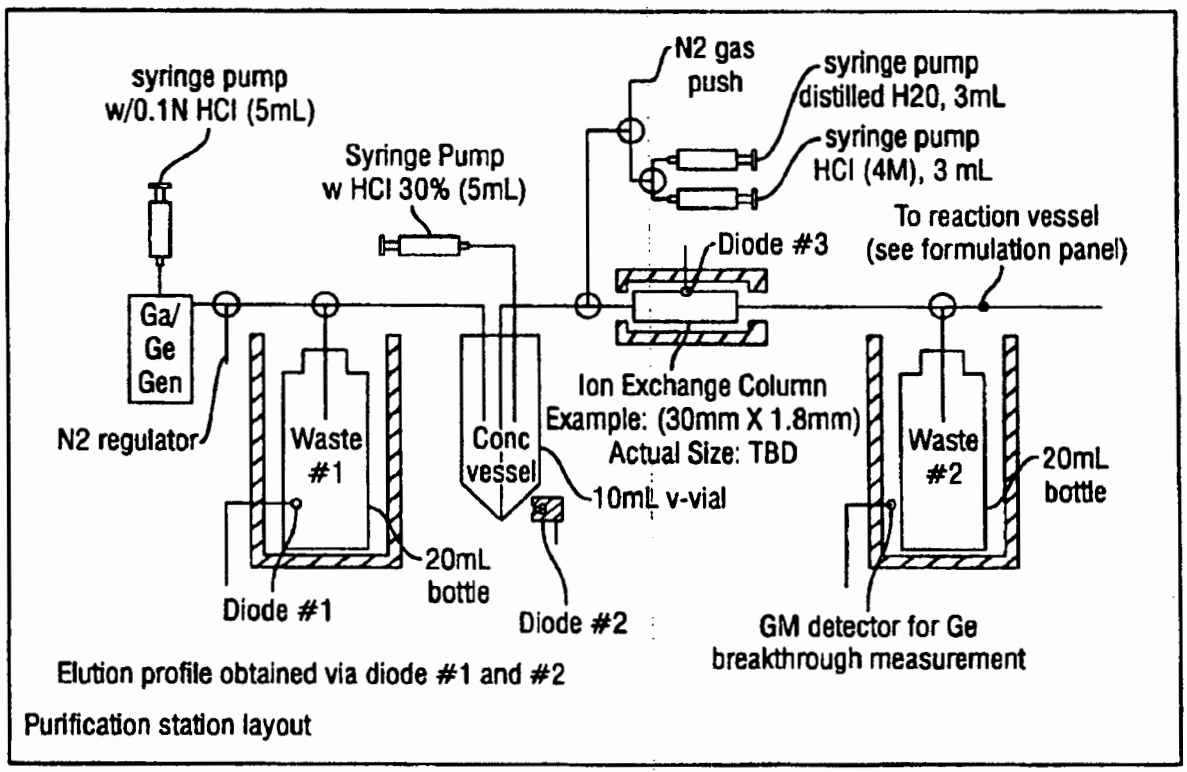
FIG. 15

Purification Panel



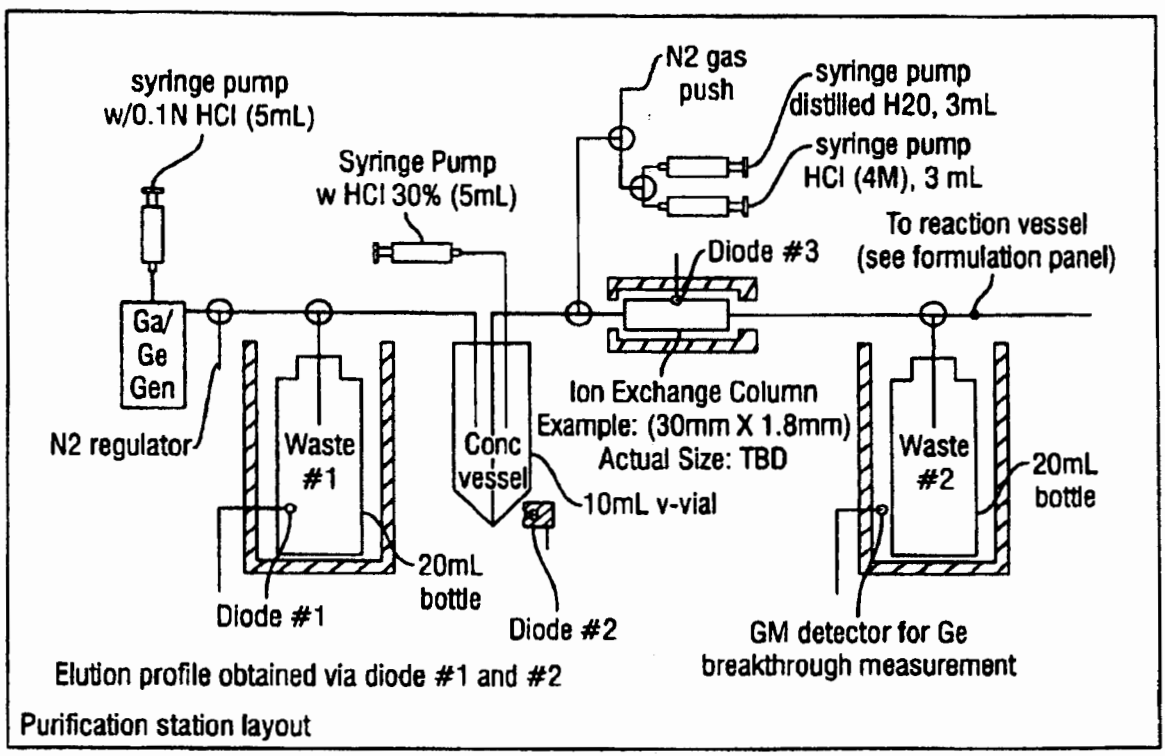
Step 1. Elution of $^{68}Ge/^{68}Ga$ generator with HCl and collection of 1 ml "dead volume" into waste bottle #1.

FIG. 16



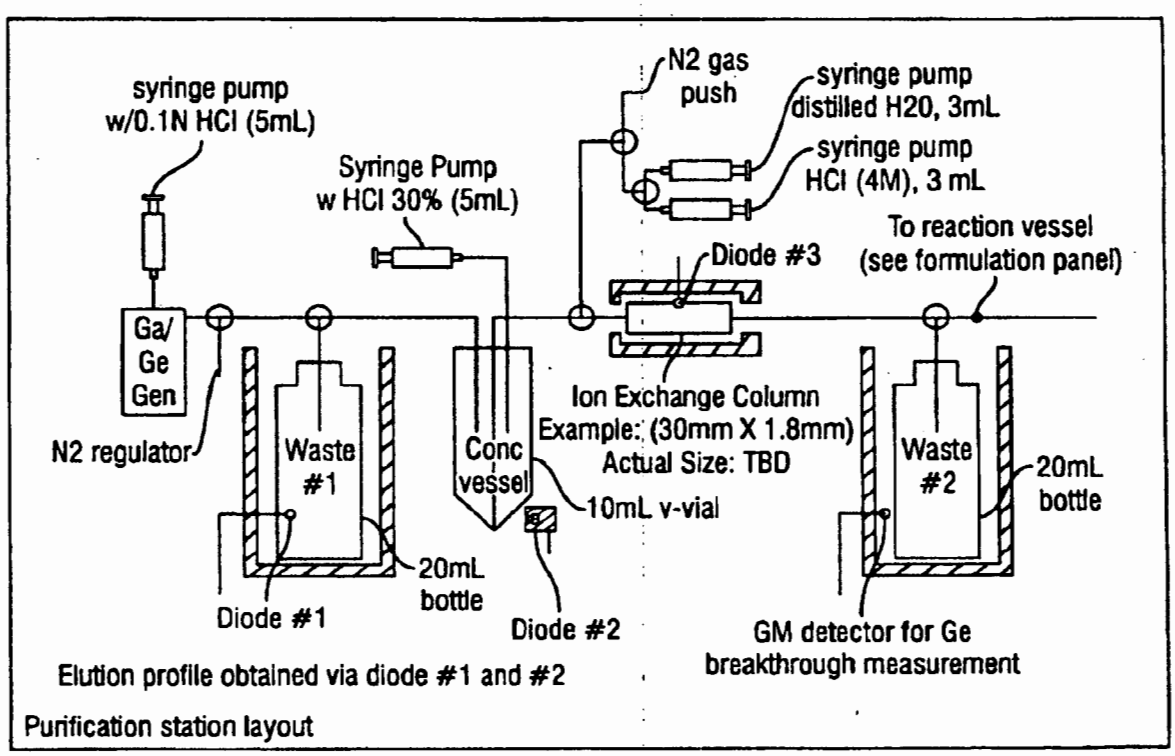
Step 2. Elution of $^{68}Ge/^{68}Ga$ generator with HCl and collection of 4 ml of $^{68}GaCl_3$ into concentration vessel.

FIG. 17



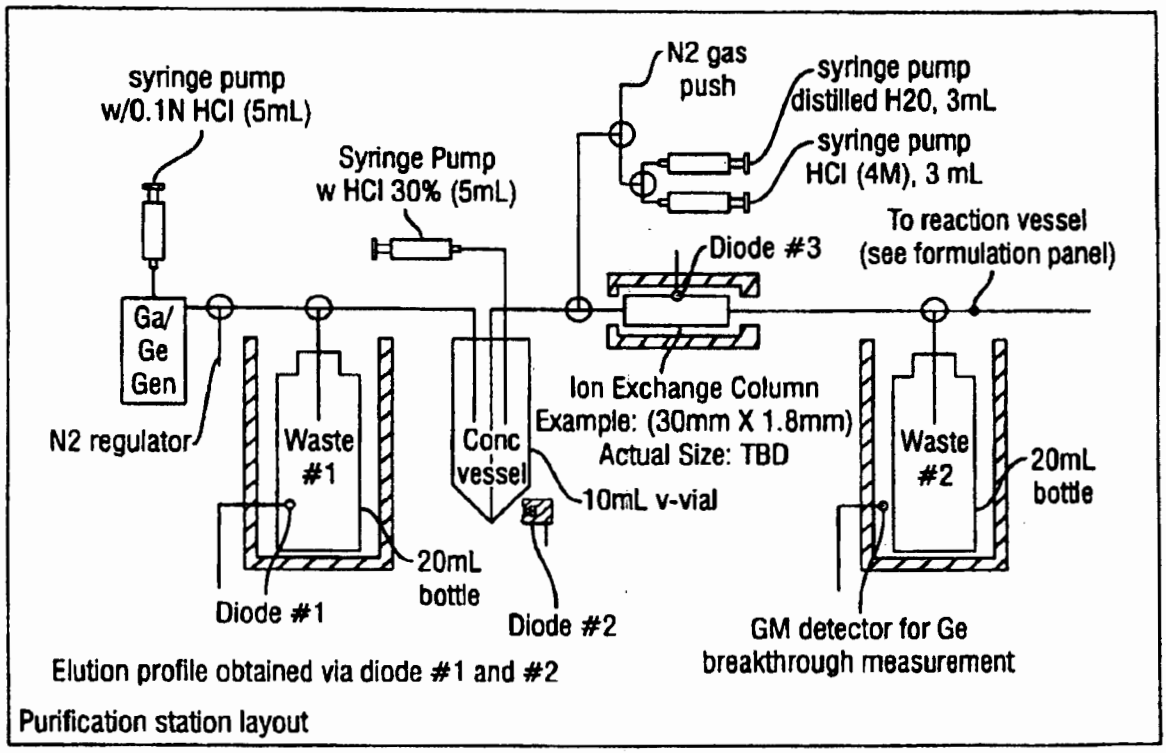
Step 3. Purging of lines with N_2 gas to collect entire volume.

FIG. 18



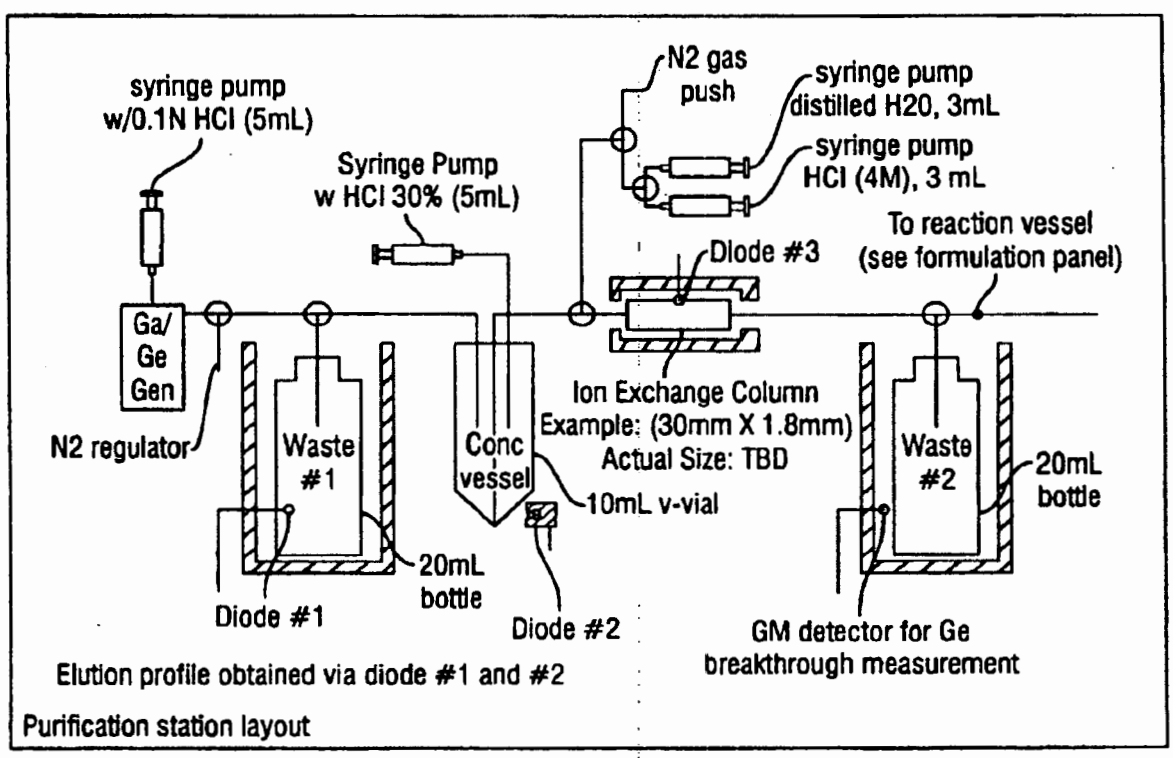
Step 4. Concentration of $^{68}GaCl_3$ with 30% HCl

FIG. 19



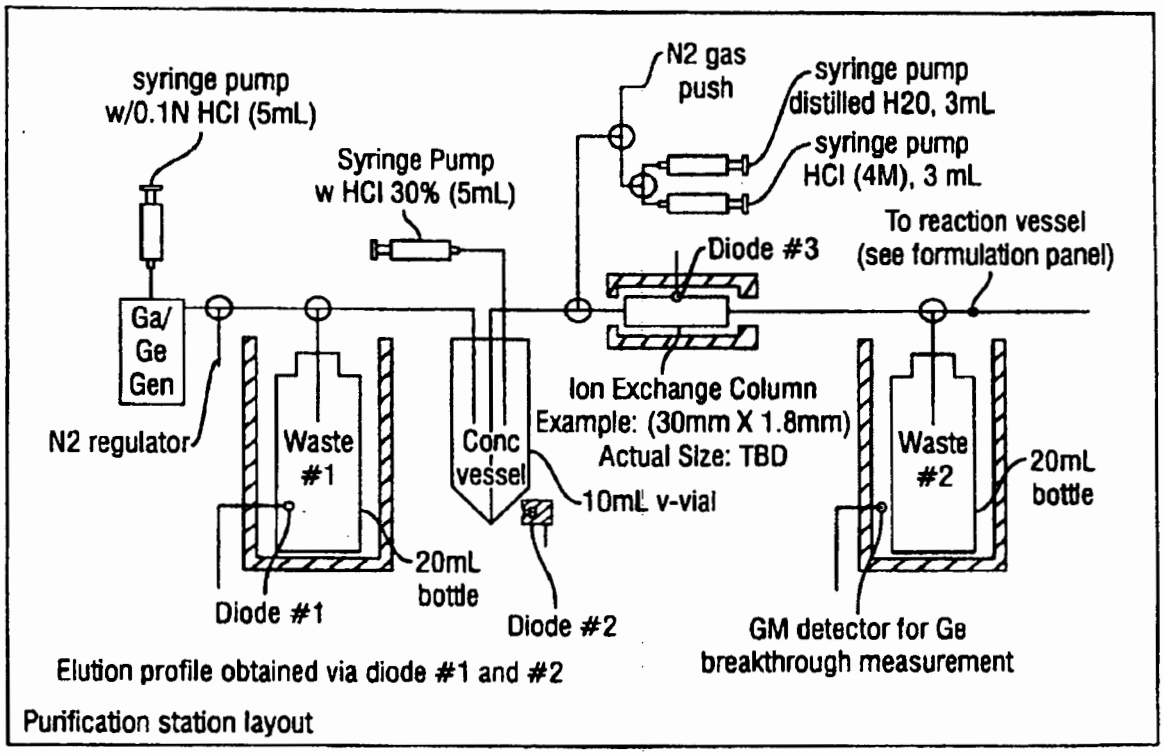
Step 5. Transfer of $^{68}GaCl_3$ onto ion exchange column using N_2 gas. Waste volume collected in waste bottle #2.

FIG. 20



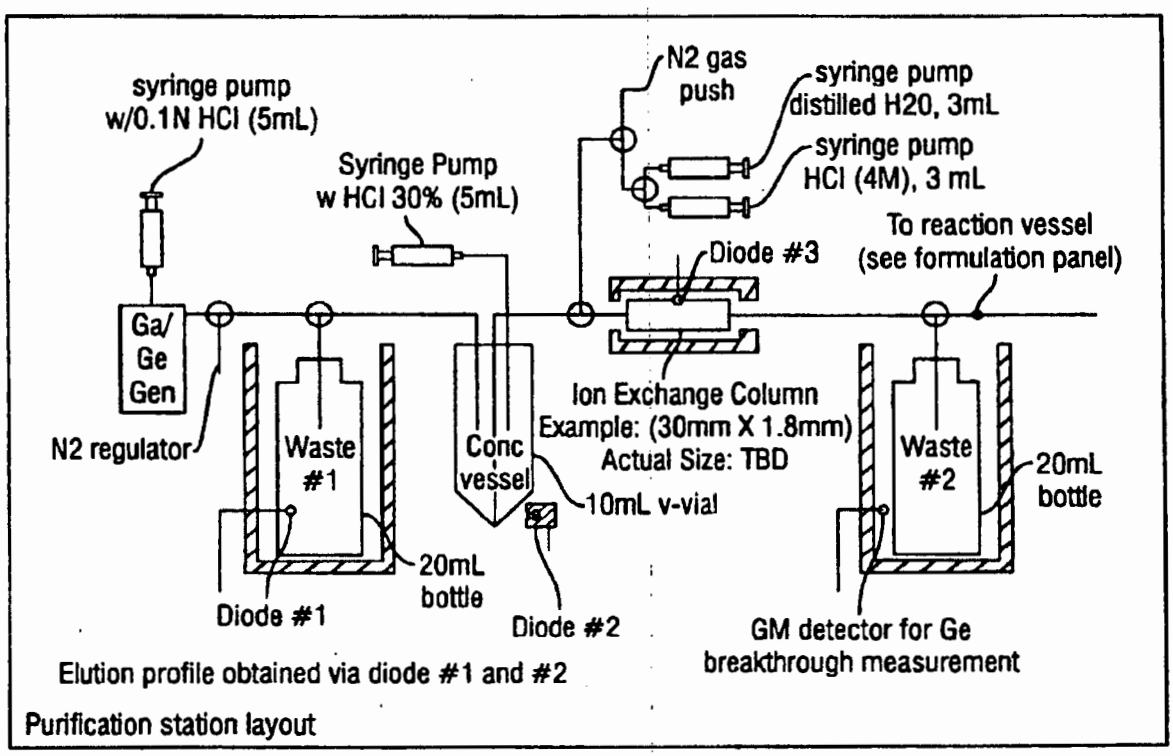
Step 6. Removal of ^{68}Ge from ion exchange column using 4M HCl. ^{68}Ge collected in waste bottle #2 and radioactivity recorded.

FIG. 21



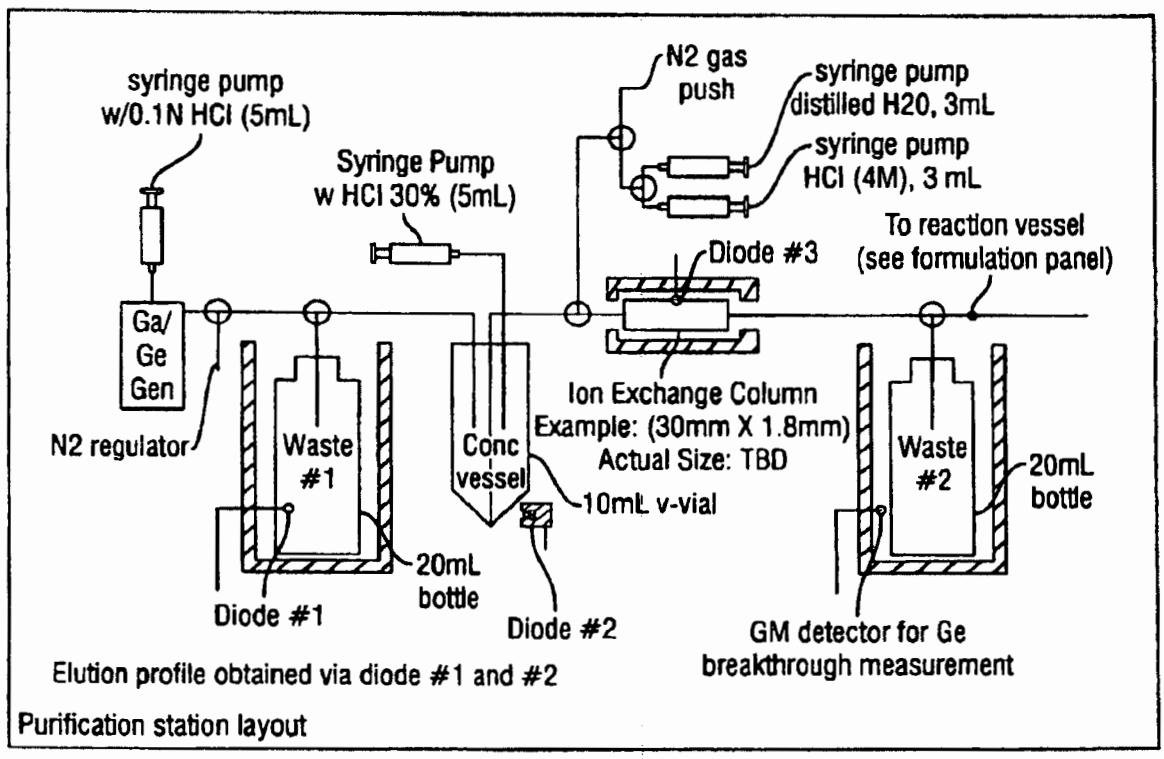
Step 7. Purging of lines with N_2 gas to remove all HCl.

FIG. 22



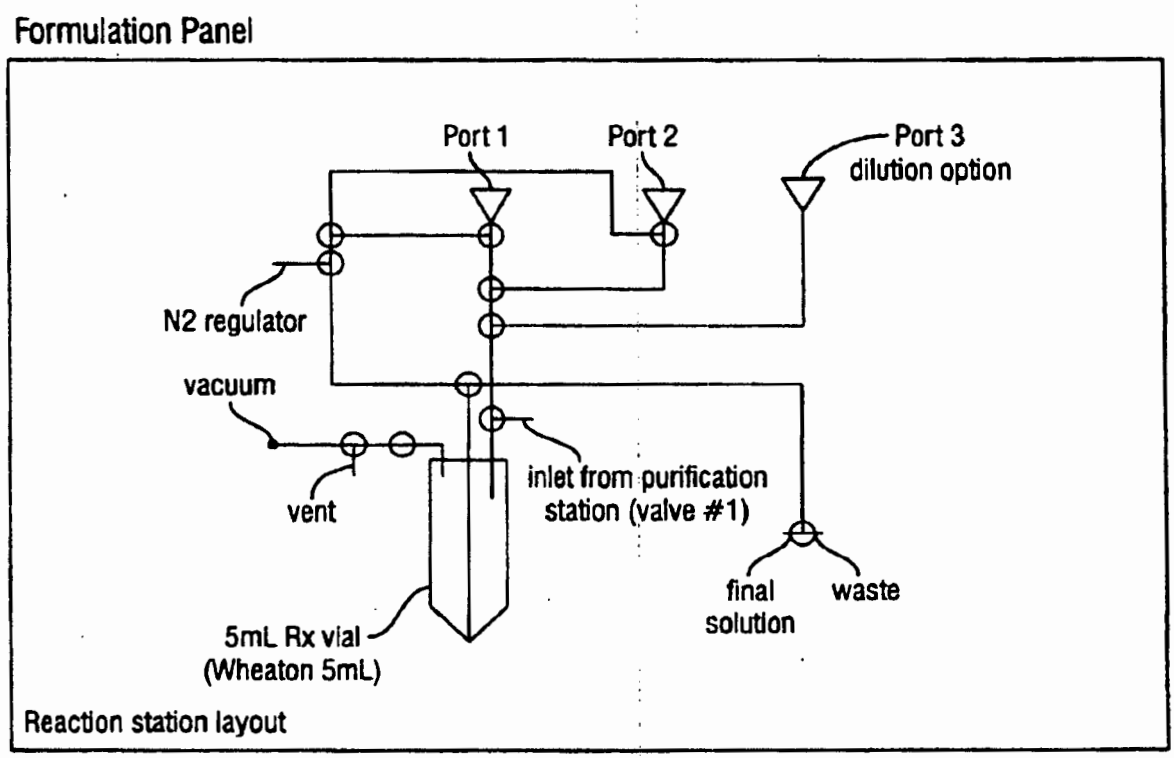
Step 8. Removal of $^{68}GaCl_3$ from column using distilled water and transfer into reaction vessel on formulation panel.

FIG. 23



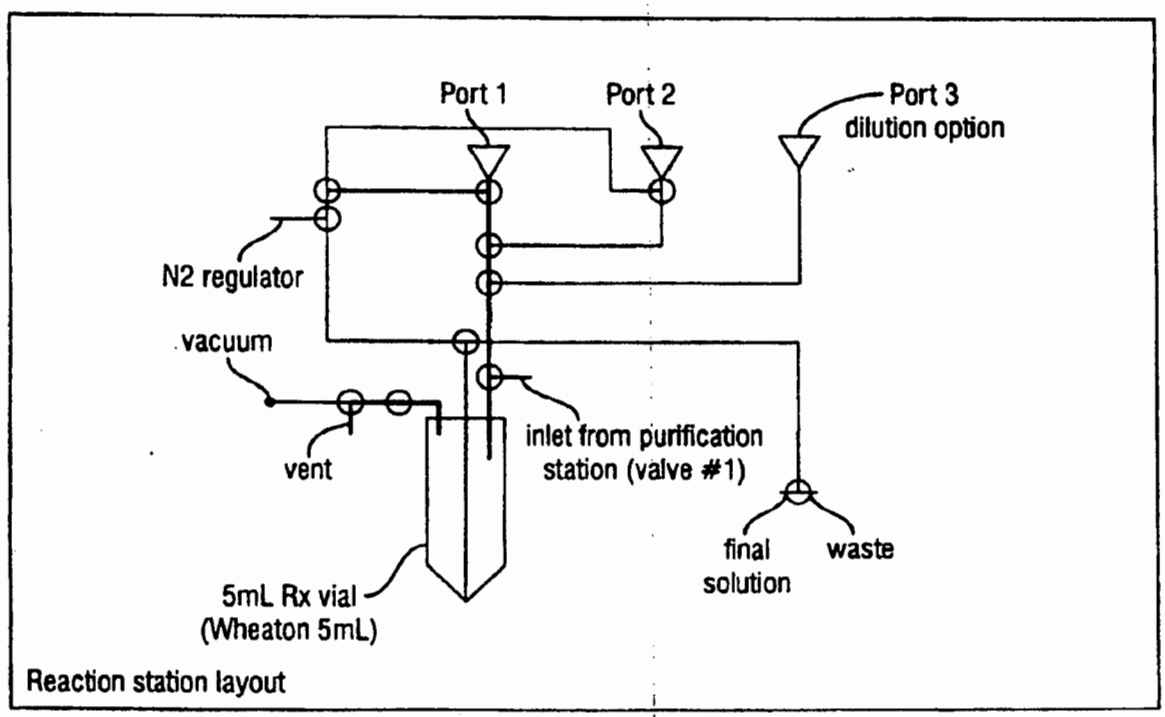
Step 9. Purging of lines with N_2 gas to collect remaining $^{68}GaCl_3$ into reaction vessel on formulation panel.

FIG. 24



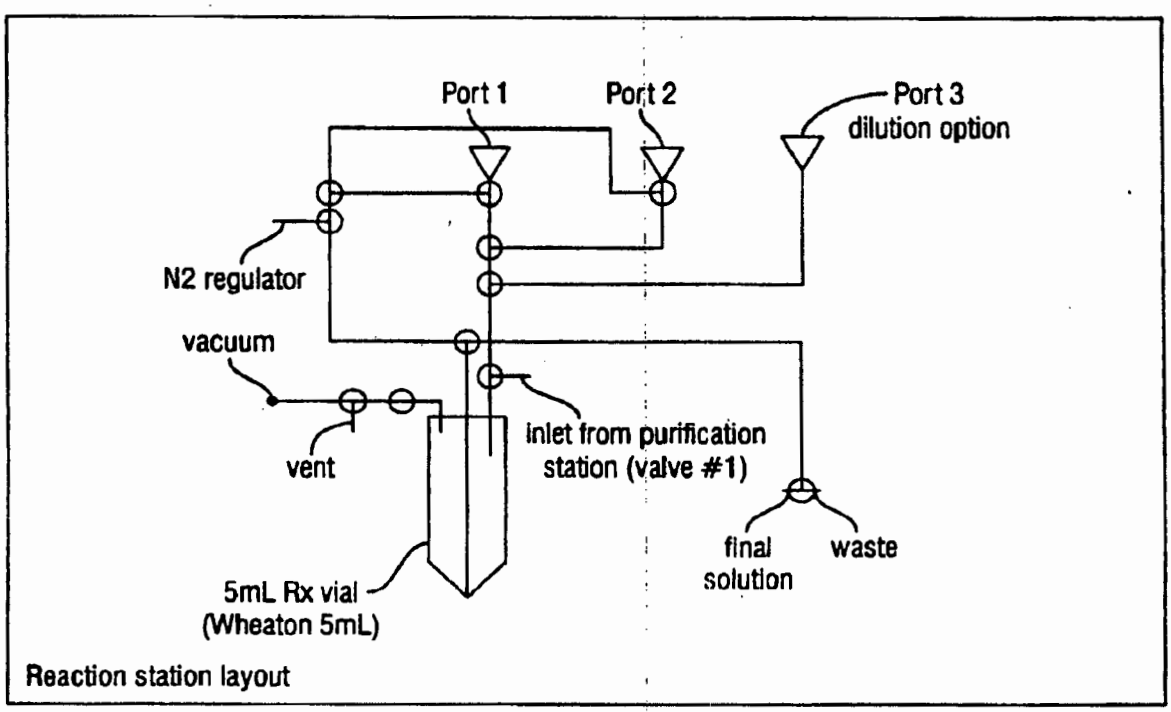
Step 10. Collection of $^{68}GaCl_3$ into reaction vessel on formulation panel.

FIG. 25



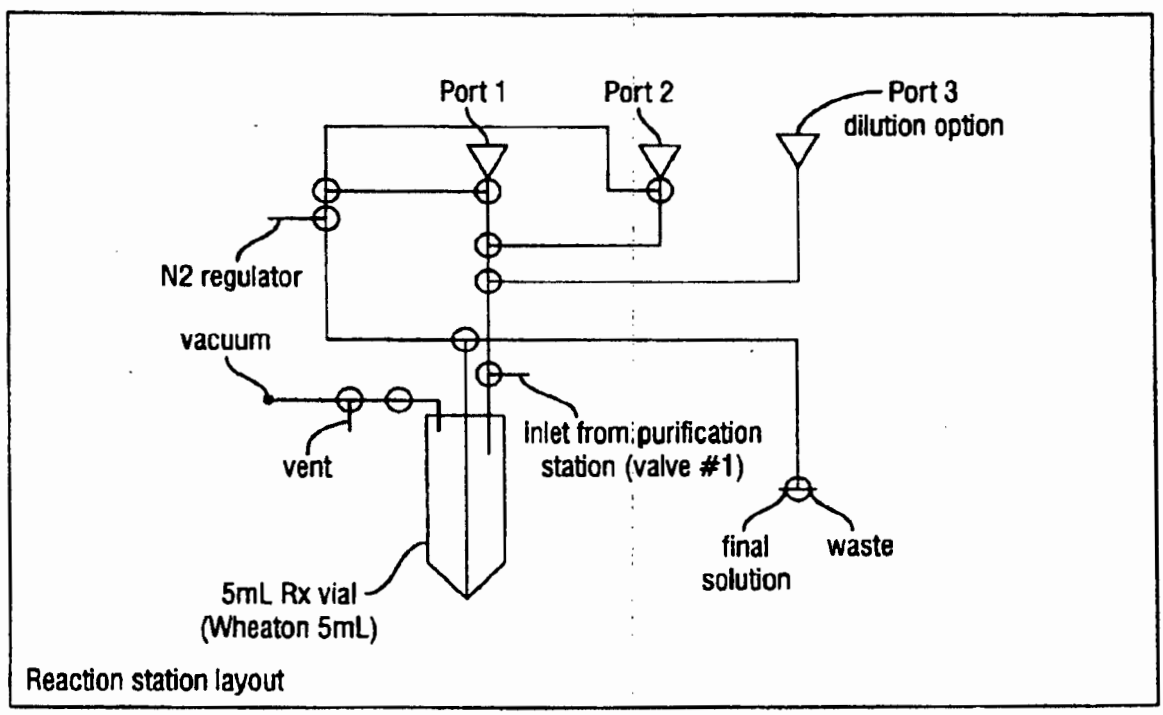
Step 11. Dispensing of chelating-bioconjugate into reaction vessel.

FIG. 26



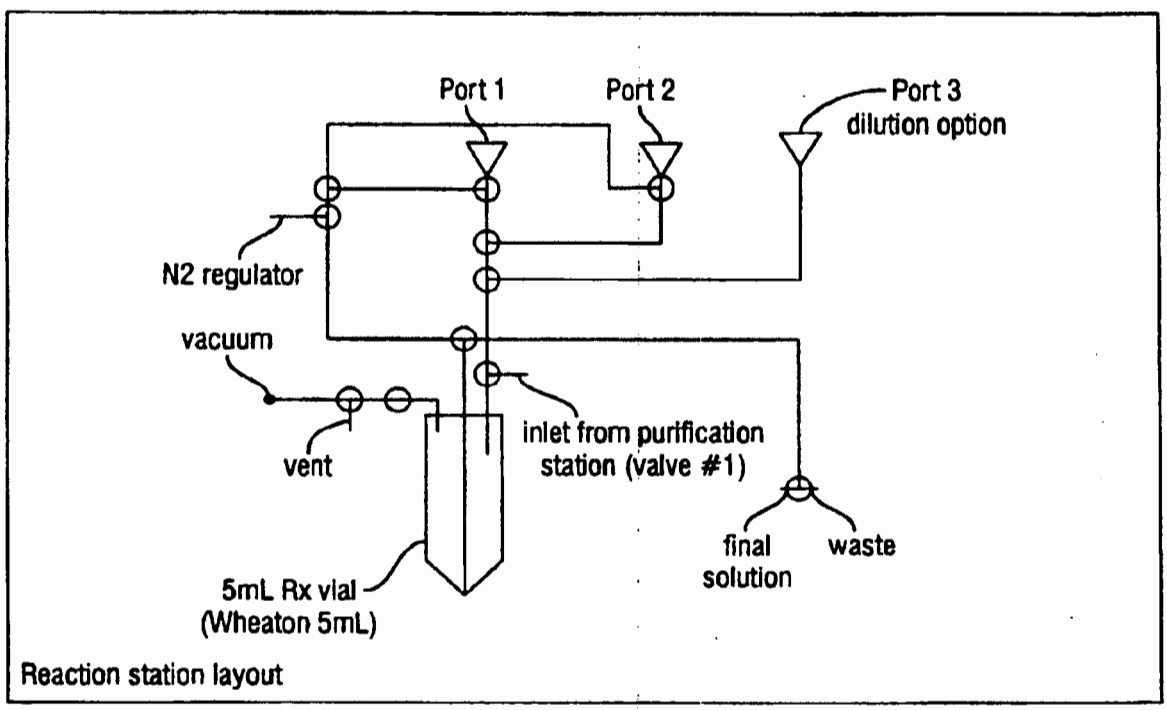
Step 12. Purging of lines with N_2 gas to collect entire volume.

FIG. 27



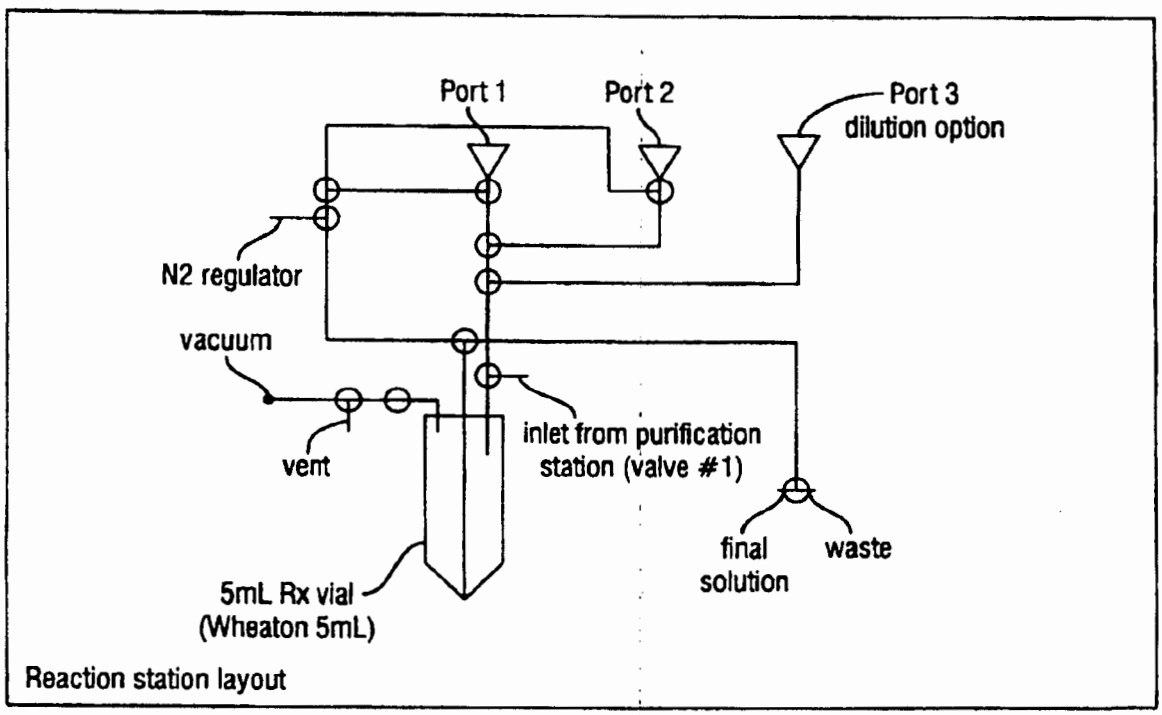
Step 13. Dispensing of transchelator to trap any unreacted $^{68}GaCl_3$.

FIG. 28



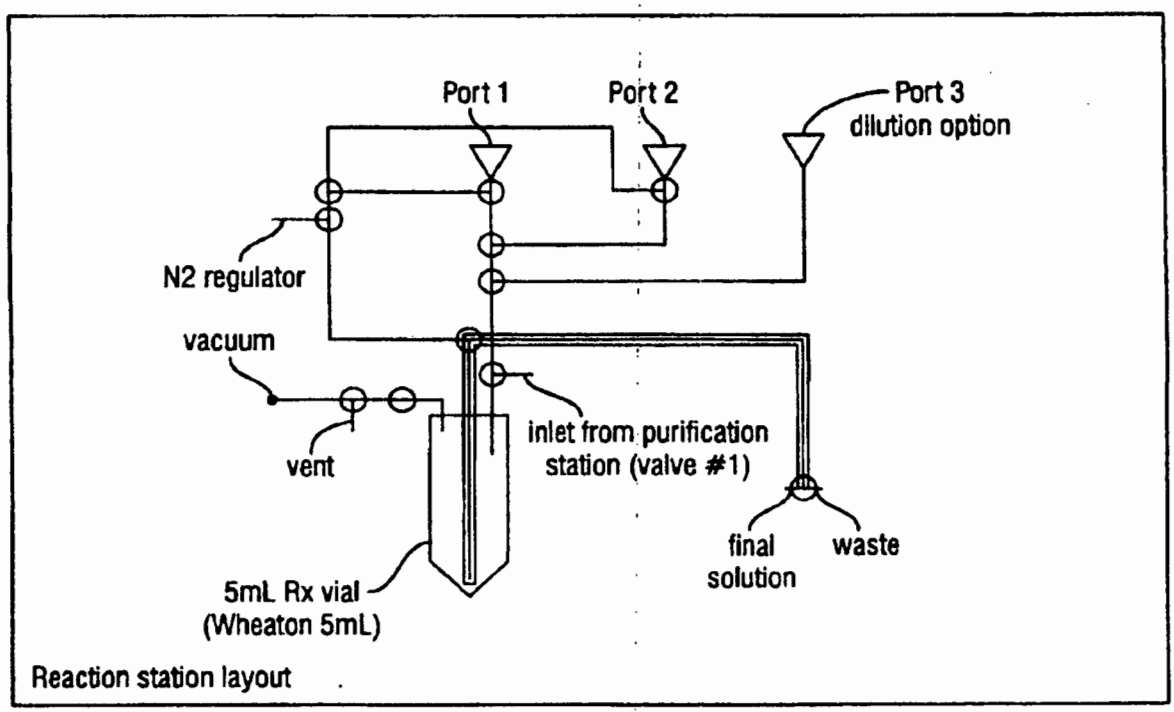
Step 14. Purging of line with N_2 gas to collect entire volume.

FIG. 29



Step 15. Dispensing of buffer solution to adjust strength of final formulation.

FIG. 30



Step 16. Collection of final product using N_2 gas for transfer.

FIG. 31

Reaction Panel
Front View

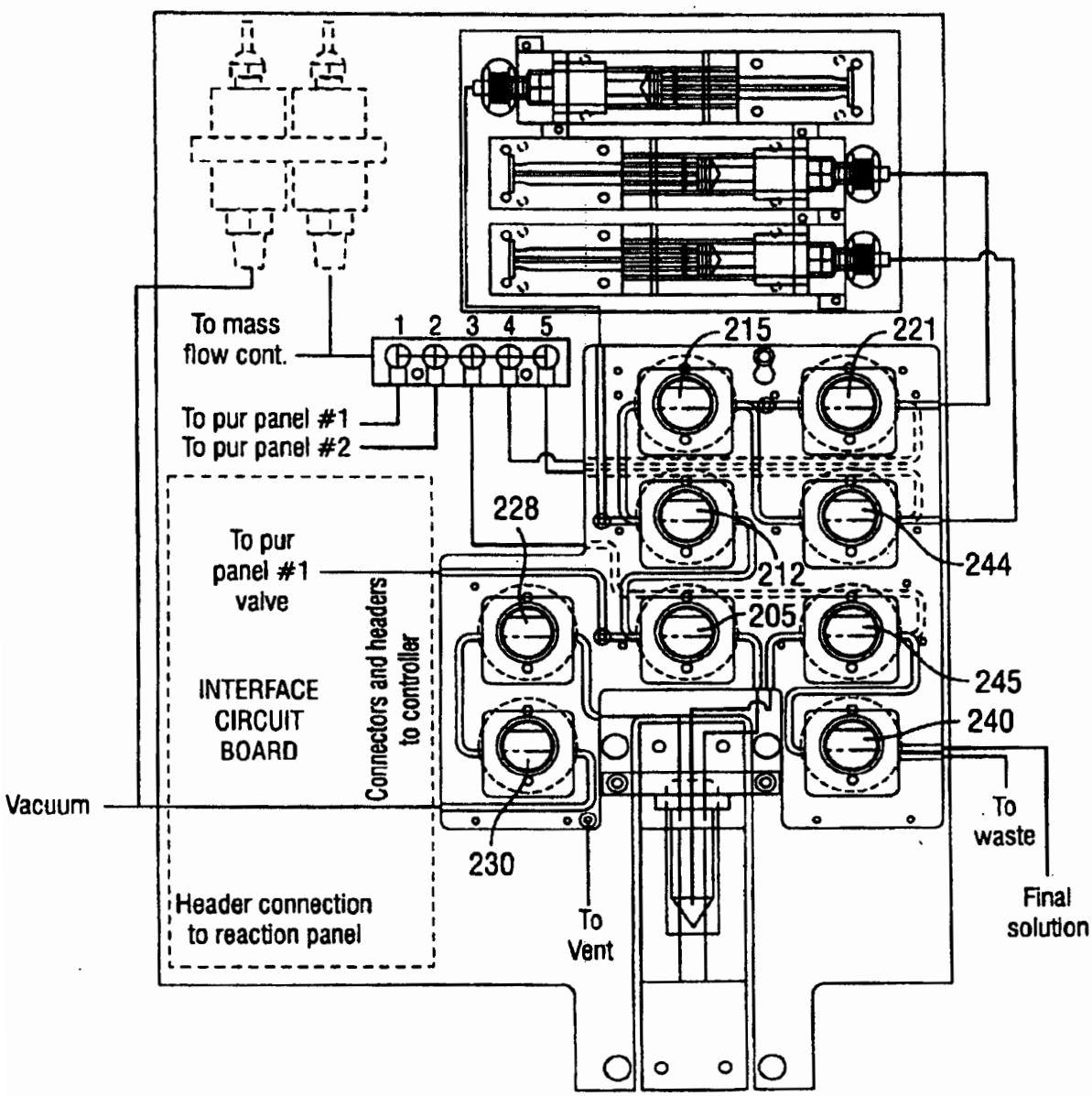


FIG. 32

Purification Panel
Front View

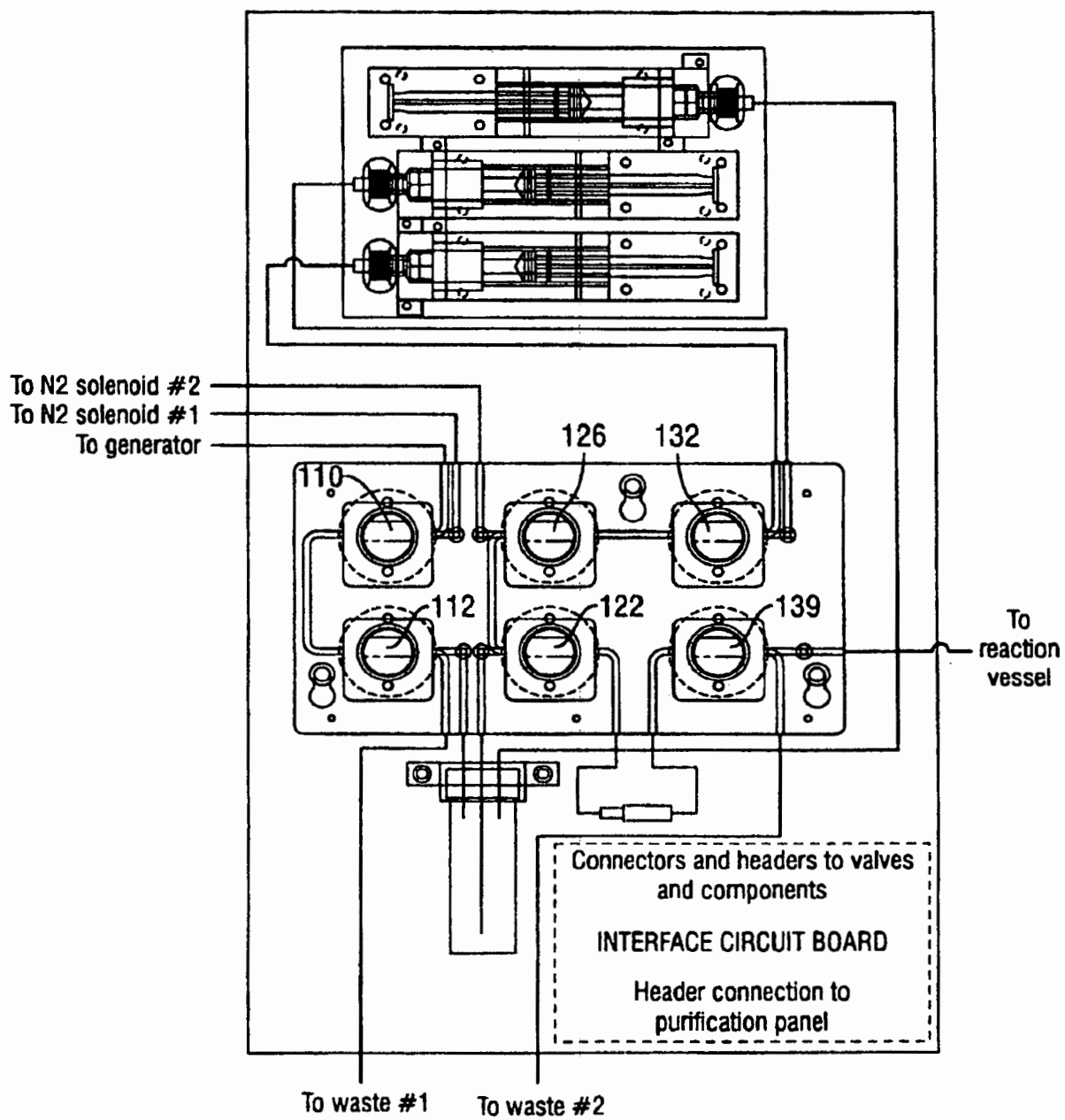


FIG. 33