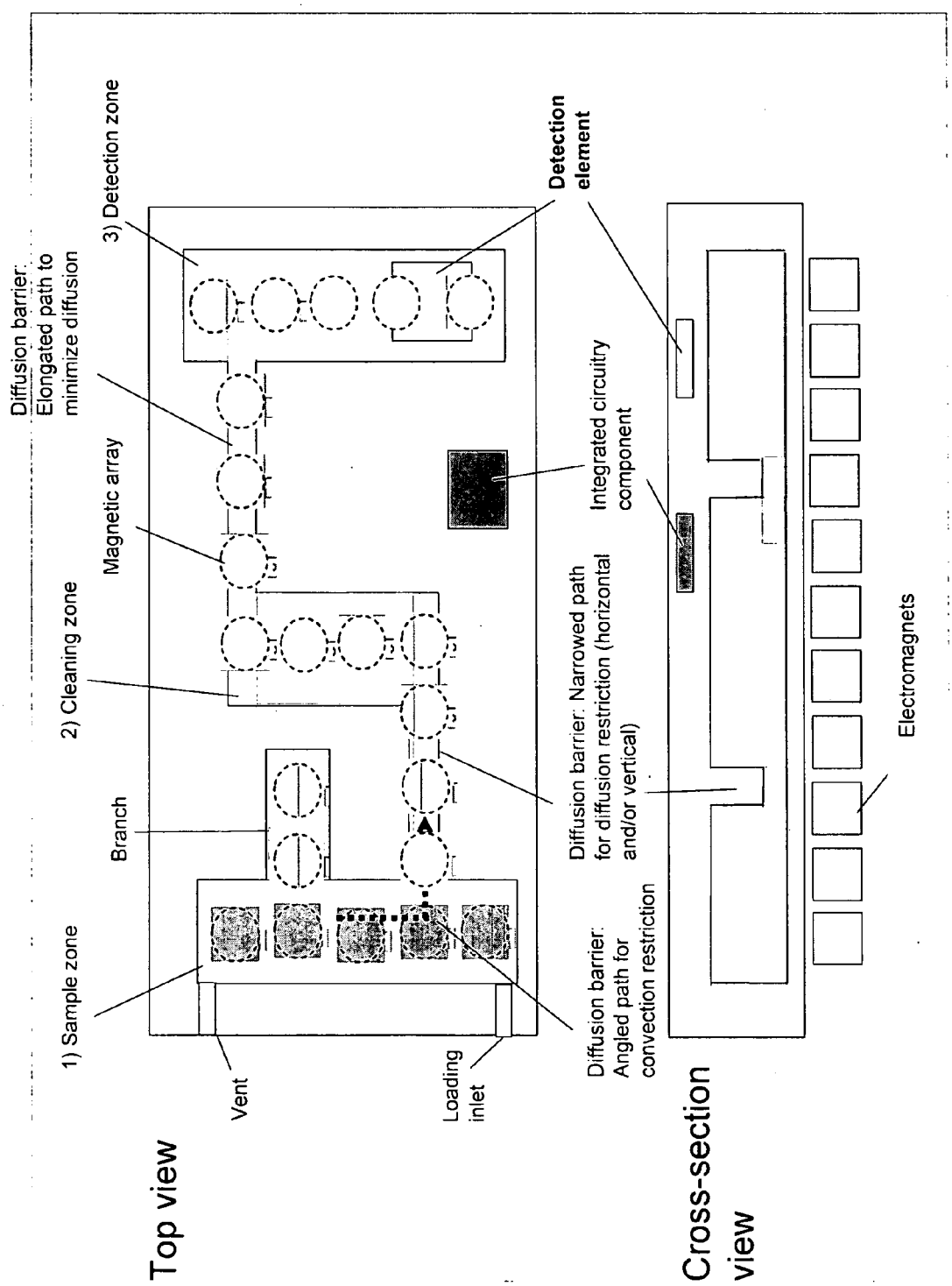
FIG. 4


Top view
1) Sample zone
Branch
2) Cleaning zone
Magnetic array
Diffusion barrier: Elongated path to minimize diffusion
3) Detection zone
Vent
Loading inlet
Detection element
Integrated circuitry component
Diffusion barrier: Narrowed path for diffusion restriction (horizontal and/or vertical)
Diffusion barrier: Angled path for convection restriction
Cross-section view
Electromagnets