FLOW CELL ASSEMBLY SECUREMENT SYSTEM AND METHOD

ABSTRACT

A flow cell and cartridge assembly may be loaded into a processing system, such as for genetic sequencing. The system locates the assembly and is then actuated to move the assembly to a desired reference position in both X- and Y-directions. Further actuation causes clamps to contact the flow cell, the cartridge, or both to exert a hold-down force during processing. Further hold-down forces may be provided by a vacuum chuck. Fluid connections are also made by manifolds that contact the flow cell. The hold-down forces counteract the forces needed for sealing the manifolds to the flow cell.

[FIG. 4]