ABSTRACT OF THE DISCLOSURE

BIOCHIP FOR SORTING AND LYSING BIOLOGICAL SAMPLES

A biochip may be used for lysing and/or cell separation. The biochip is formed to provide a sealed chamber for biological fluid. Electrodes are formed therein. The biochip may be formed as a sandwich structure with extruded electrodes to form sealed channels where biological samples may be processed. The electrodes form an un-even electric field on the channel to generate electric field gradient and hence a force on cells / particle within the fluid in the chamber. A voltage source applies a suitable voltage to separate and/or lyse cells within the fluid.

Figure 2