

ABSTRACT

SEPARATION CHIP ASSEMBLY

An isolation chip assembly (1) includes an isolation chip (10), first oscillators (20), and second oscillators (30). The isolation chip (10) has a sample reservoir (13), and a first filtration membrane (14) and a second filtration membrane (16) at opposite sides of the sample reservoir (13), a first chamber (15) and a second chamber (17). The first oscillators (20) are mounted on the first filtration membrane (14) and the second filtration membrane (16), and can generate a first oscillation wave when operating. The second oscillator (30) are mounted on the outer surfaces of the first chamber (15) and the second chamber (17) , and can generate a second oscillation wave when operating. A frequency of the first oscillation wave is greater than a frequency of the second oscillation wave, an amplitude of the first oscillation wave is less than an amplitude of the second oscillation wave.

Figure 1