

SYSTEM AND METHOD TO ELIMINATE RADIO FREQUENCY COUPLING BETWEEN COMPONENTS IN MASS SPECTROMETERS FIELD

Abstract

A radio frequency component for use in a mass spectrometer is described. The radio frequency component includes a plurality of electrodes. The plurality of electrodes is configured around a central axis to create an ion channel within the plurality of electrodes. In addition, each of the plurality of electrodes is paired with an opposing electrode across the central axis. And, at least one electrode pair has an electrode extension on each electrode. The electrode extension is configured to overlap at least a portion of a proximate electrode of a second radio frequency component.

Figure 2