

## **ABSTRACT**

The invention generally relates to an assembly of a first RF component and a second RF component in a mass spectrometer, the first RF component comprising a first set of electrodes and the second RF component comprising a second set of electrodes, wherein the RF components are located and aligned end-to-end to one another, and wherein a transverse dimension of the electrodes of the first set is smaller than that of the electrodes of the second set. The assembly further comprises a conductive electric field screen located at an outer periphery of the first set of electrodes and facing the electrodes of the second set as to reduce RF electric field cross-talk between the electrodes of the first set and those of the second set. The invention affords for technically simple and economic means to reduce cross-talk or capacitive coupling between adjacent RF components in a mass spectrometer.

[ Figure 2A ]