

MASS SPECTROMETER WITH PRECISELY ALIGNED ION OPTIC ASSEMBLIES

ABSTRACT OF THE DISCLOSURE

5 **[0061]** A mass spectrometer has a manifold and at least one ion optical
assembly that is composed of a support and electrodes attached to the support. The
support is aligned to at least one reference surface machined integrally with the
manifold such that the number of interfaces between the reference surface of the
manifold and the electrodes is minimised. With such a design the positional and/or
10 alignment precision of ion optical assemblies in a mass spectrometer can be improved.

Figure 1