

MULTIPOLE ROD ASSEMBLY AND METHOD FOR ITS FABRICATION

ABSTRACT OF THE DISCLOSURE

[0085] A multipole rod assembly, such as used as mass analyser, is fabricated
5 using rods adhesively attached to shoes, which are then attached to isolation rings. A
fixture is used in conjunction with precision-made spacers to precisely assemble the ion
mass analyser. The rods and shoes can be made of metal, while the isolation rings are
preferably made of insulator, such as ceramic. The shoes and isolation rings need not
be made to high precision, as the spacer ensures high accuracy in alignment and
10 symmetry of the rods. Consequently, the rods are the only precision machined parts in
the ion mass analyser assembly.

Figure 3