

Inlet for Ultra High Mass Analysis

Disclosure Number

200301304

Technology Summary

The subject invention disclosed herein is an inlet designed to permit the delivery of extremely high mass charged species into vacuum with near zero translational kinetic energies. Because expansion of a carrier gas laden with particles (very large molecules or clusters of molecules) into vacuum imparts increasing amounts of kinetic energy into the particles as a function of increasing mass, the difficulty of performing mass spectrometry increases with increasing mass. Reduction of the translational kinetic energy of these particles enables mass spectrometry in the megadalton mass range and beyond. This is accomplished by the design of the subject invention.

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