Title (en)

METHOD FOR SEPARATION OF ISOMERS AND DIFFERENT CONFORMATIONS OF IONS IN GASEOUS PHASE

Title (de)

VERFAHREN ZUR ISOMERTRENNUNG UND TRENNUNG VERSCHIEDENER IONENKONFORMATIONEN IN DER GASPHASE

Title (fr)

PROCEDE DE SEPARATION D'ISOMERES ET DE DIFFERENTES CONFORMATIONS D'IONS EN PHASE GAZEUSE

Publication

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Application

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Abstract (en)

[origin: WO0008457A1] The present invention provides an apparatus for selectively transmitting ions and trapping the ions within a defined 3-dimensional space at atmospheric pressure. The invention is based on the ion focussing principles of high field asymmetric waveform ion mobility spectrometry in which an analyzer region is defined by a space between first and second spaced apart electrodes, the analyzer region having a gas inlet and a gas outlet for providing a flow of gas through the analyzer region. Ions which are introduced into the analyzer region are carried by a gas flow towards a gas outlet. At least one of the electrodes has a curved surface terminus located near the gas outlet and the gas flow is adjusted so that ions are trapped in a defined 3-dimensional space located near the tip of the terminus. Trapping of ions in a defined 3-dimensional space allows a more concentrated flow of desired ions.

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