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Bateman

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(54) **MASS SPECTROMETER**

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See application file for complete search history.

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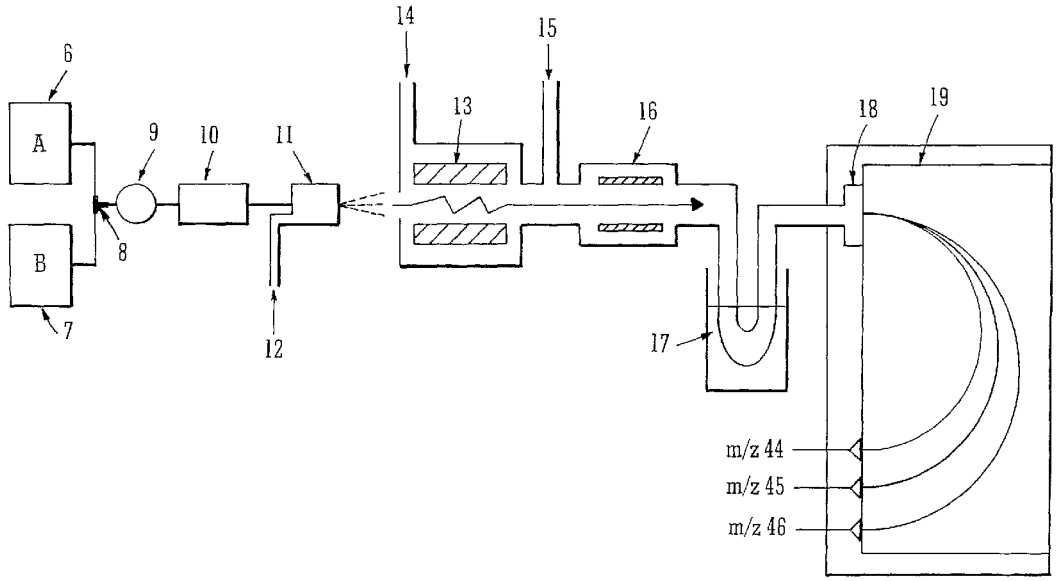
(57) **ABSTRACT**

A mass spectrometer is disclosed comprising a High Pressure Liquid Chromatography system (**10**) which is interfaced to a combustion chamber (**16**) and isotope ratio mass analyser (**19**) by means of an Electrospray Ionisation ion source (**11**) and a Field Asymmetric Ion Mobility Spectrometry device (**13**). Analyte and solvent molecules are ionised by the ion source (**11**). Desired analyte ions are substantially onwardly transmitted by the Field Asymmetric Ion Mobility Spectrometry device (**13**) to the combustion chamber (**16**) whereas undesired solvent ions are substantially attenuated by the Field Asymmetric Ion Mobility Spectrometry device (**13**).

25 Claims, 2 Drawing Sheets