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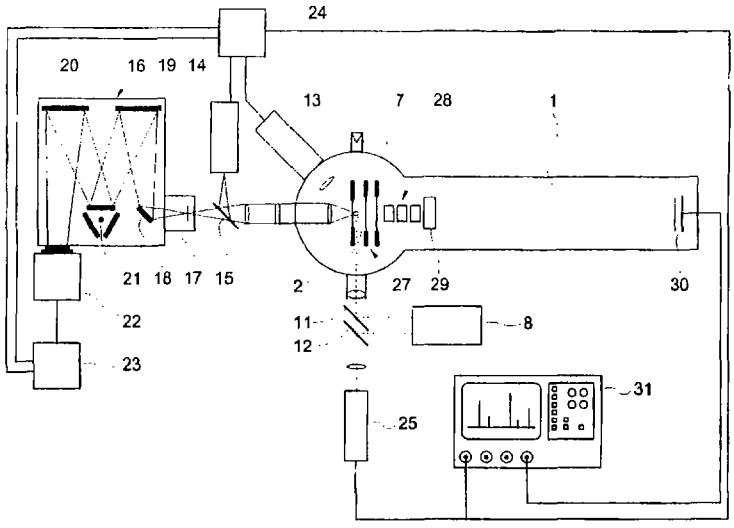
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(54) Title: METHOD AND DEVICE FOR DETECTING AND IDENTIFYING BIO-AEROSOL PARTICLES IN THE AIR



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(57) Abstract: In a method for detecting and identifying bioaerosol particles in the air, the bioaerosol particles in a particle stream are selected in an ATOFMS (aerosol time-of-flight mass spectrometer) by means of fluorescence techniques, and only the selected bioaerosol particles are ionized, for instance on the basis of MALDI (matrix-assisted laser desorption/ionization), after which the resulting ions are detected and the bioaerosol particles are identified.The selection of bioaerosol particles takes place by means of laser radiation, generated by a first laser device, of a wavelength which in specifice substances in bioaerosol particles effects a fluorescence, after which by means of a fluorescence detector the bioaerosol particles are selected and a second laser device is triggered to emit light of a wavelength which effects the ionization of the bioaerosol particles selected only by the fluorescence detector.

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