

Title (en)

Mass spectrometer for mass discrimination according to the time of flight

Title (de)

Massenspektrometer zur flugzeitabhängigen Massentrennung

Title (fr)

Spectromètre de masse avec séparation des masses selon le temps de vol

Publication

EP 0613171 B1 19960814 (DE)

Application

EP 94102360 A 19940217

Priority

DE 4305363 A 19930223

Abstract (en)

[origin: EP0613171A1] The invention relates to a mass spectrometer having mass separation as a function of the time of flight with the aid of ejection electrodes, in which, when the ejection potential is switched off, all ions fly straight ahead and in which deflection electrodes are arranged in the flight path of the ion stream, which electrodes are loaded with deflection voltages which are variable with time so that the local resolution of each mass window results independently of the mass area to be resolved according to the equation $M_{\text{window}} \times U_{\text{deflect}} = \text{constant}$. <IMAGE>

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