

Title (en)  
MASS SPECTROMETER

Publication  
**EP 0290712 B1 19901107 (DE)**

Application  
**EP 87890179 A 19870720**

Priority  
AT 117787 A 19870511

Abstract (en)  
[origin: EP0290712A1] In the eight-pole arrangement (5) used for holding and guiding ions having a low kinetic energy, an E-field in the desired ion movement direction is superimposed on the radially acting RF field, as a result of which, despite the kinetic energy of the ions remaining low, safe, rapid deflection to the mass spectrometer quadrupole (3) takes place and the response time and overall sensitivity of the arrangement can be significantly increased. <IMAGE>

IPC 1-7  
**H01J 49/14**; **H01J 49/42**

IPC 8 full level  
**H01J 49/14** (2006.01); **H01J 49/42** (2006.01)

CPC (source: EP)  
**H01J 49/063** (2013.01)

Cited by  
DE10236345A1; DE19628093A1; DE19628093B4; GB2232813A; GB2232813B; US6111250A; US5847386A; US6884995B2; US6897438B2; US7045797B2; US6982416B2; US7141789B2; US2011057099A1; US8288714B2; US7675031B2; US6800846B2; EP3418714A1; WO2018234245A1; WO2004013891A1; WO9707530A1

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