

Title (en)

Apparatus for non thermal excitation and ionisation of vapors and gases

Title (de)

Vorrichtung für die nichtthermische Anregung und Ionisation von Dämpfen und Gasen

Title (fr)

Appareil pour l'excitation non-thermique et l'ionisation de vapeurs et de gaz

Publication

**EP 0612130 B1 19970122 (DE)**

Application

**EP 94102010 A 19940210**

Priority

CH 52993 A 19930219

Abstract (en)

[origin: EP0612130A1] The excitation cell has a multiplicity of rod-shaped electrode elements (1). Each electrode element is surrounded by a chemically and thermally stable protective jacket which can also withstand electric fields. The electrode elements are held in vertically running bridges (2, 2', 3, 3'). This provides a construction in a plurality of modules, each of which modules consists of electrode elements arranged one on top of another and two bridges. The electrode elements of each module are electrically connected to a conducting rail (11) and are at the same potential. The modules are alternately applied to phase and earth. The excitation cell described is largely insensitive to condensates, so that even humid or polymerising gases can be excited. In addition, the modular construction allows individual electrode elements to be replaced with ease. <IMAGE>

IPC 1-7

**B03C 3/00**; **H01T 19/00**; **H01T 23/00**

IPC 8 full level

**H01T 19/00** (2006.01); **H01T 23/00** (2006.01)

CPC (source: EP US)

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