

Title (en)  
A plate-type magnetron

Title (de)  
Magnetron mit planarer Anode

Title (fr)  
Magnetron avec anode plate

Publication  
**EP 0862198 A2 19980902 (EN)**

Application  
**EP 98301106 A 19980216**

Priority  
JP 4653297 A 19970228

Abstract (en)  
A plate-type magnetron has a cathode (13) for emitting electrons and plate shaped anode (11) having a multiple number of vanes (12) arranged at regular intervals thereon, forming an interaction space (18). Provided on both sides of the interaction space are a pair of pole pieces (14) which are formed of bellows, and hence flexible in their length, and an adjustable magnetic portion (16). A yoke (15) is provided, which is used to alter the distance between the magnets, so that the frequency of the microwaves can be changed. A pair of electrodes (20) arranged facing each other perpendicularly to the magnetic field on both sides of the interaction space (18) is also provided, and the applied voltage to the electrodes is changed to thereby change the output power of microwaves. <IMAGE>

IPC 1-7  
**H01J 25/58**; **H01J 23/02**; **H01J 23/075**; **H01F 7/02**; **H01F 3/10**

IPC 8 full level  
**H01J 23/04** (2006.01); **H01J 23/05** (2006.01); **H01J 23/10** (2006.01); **H01J 25/60** (2006.01)

CPC (source: EP)  
**H01J 23/04** (2013.01); **H01J 23/10** (2013.01); **H01J 25/60** (2013.01)

Cited by  
WO2006008541A3

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0862198 A2 19980902**; **EP 0862198 A3 19981111**; **EP 0862198 B1 20020508**; CN 1147909 C 20040428; CN 1192036 A 19980902; DE 69805238 D1 20020613; DE 69805238 T2 20021107; JP 3333421 B2 20021015; JP H10241585 A 19980911; KR 100291396 B1 20010712; KR 19980071724 A 19981026

DOCDB simple family (application)  
**EP 98301106 A 19980216**; CN 98105268 A 19980220; DE 69805238 T 19980216; JP 4653297 A 19970228; KR 19980006067 A 19980226