

Title (en)
Magnetron

Title (de)
Magnetron

Title (fr)
Magnétron

Publication
EP 1814364 B1 20190821 (EN)

Application
EP 07290106 A 20070126

Priority
JP 2006020215 A 20060130

Abstract (en)
[origin: EP1814364A2] Problems: To provide a magnetron having a $\pi/4$ type choke structure suppressing higher harmonic wave components propagated in a higher order mode or suppressing an unnecessary radiation of the medium band interposed between two higher harmonic waves having frequencies of integer multiples of the fundamental wave. Means for solving the problems: In a magnetron comprising a high frequency wave generating part 11 generating a high frequency wave, an antenna 24 extracting the high frequency wave, a cylindrical metallic envelope 18 surrounding the antenna 24 and a $\pi/4$ type choke structure C2 suppressing a higher harmonic wave component propagated in a fundamental mode in the metallic envelope 18, another $\pi/4$ type choke structure C1 suppressing a higher harmonic wave component propagated in a higher order mode in the metallic envelope has been provided.

IPC 8 full level
H05B 6/72 (2006.01)

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H01J 23/15 (2013.01 - KR); **H01J 23/44** (2013.01 - KR); **H01J 23/54** (2013.01 - KR); **H05B 6/72** (2013.01 - EP KR); **H05B 6/74** (2013.01 - EP KR)

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CN104253009A

Designated contracting state (EPC)
DE FR GB

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EP 1814364 A2 20070801; **EP 1814364 A3 20130417**; **EP 1814364 B1 20190821**; CN 100583369 C 20100120; CN 101013646 A 20070808; JP 2007200790 A 20070809; JP 4898234 B2 20120314; KR 100811384 B1 20080307; KR 20070078795 A 20070802

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EP 07290106 A 20070126; CN 200710006187 A 20070129; JP 2006020215 A 20060130; KR 20070008738 A 20070129