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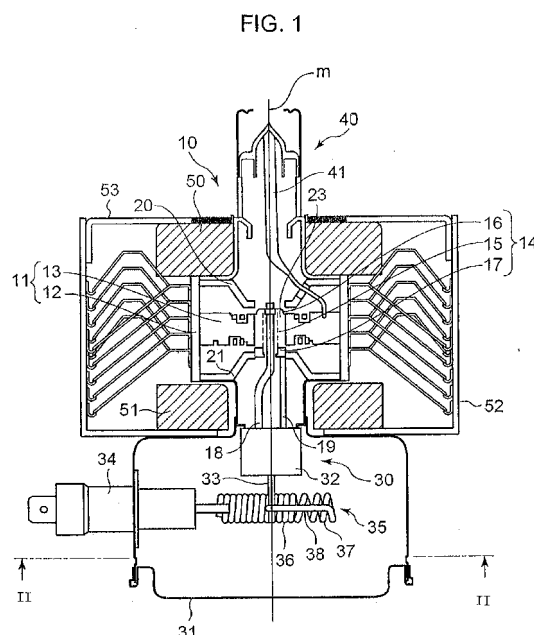
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(54) **Magnetron device**

(57) A magnetron device in which the wire's diameter of coils for the core type inductor and the air-core type inductor is 1.0 to 1.4 mm, and the cross sectional area of the magnetic core is 5 to 16 mm<sup>2</sup>, the number of turns of the coil for the air-core type inductor being

$$55 < 2\pi((D+A)/2)T \leq 90,$$

for the choke coil (35) accommodated in the filter box (31) disposed so as to cover the cathode terminal (33) of the magnetron tube body (10), which is comprised of the core type inductor (36) having the magnetic core (36a) and the air-core type inductor (37), and both thereof being serially connected together, where A (mm) is the wire's diameter of the coil, and D (mm) is the diameter of the magnetic core.





## EUROPEAN SEARCH REPORT

Application Number  
EP 09 16 6085

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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			TECHNICAL FIELDS SEARCHED (IPC)
			H01J H01F H03H H05B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 15 June 2010	Examiner Weisser, Wolfgang
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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EP 09 16 6085

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82