(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number: **0 580 193 A3**

(12) EUROPEAN PATENT APPLICATION

(21) Application number: **93201469.9**

(51) Int. Cl.[5]: **H01P 7/06**

(22) Date of filing: **24.05.93**

(30) Priority: **05.06.92 IT MI921400**

(43) Date of publication of application:
26.01.94 Bulletin 94/04

(84) Designated Contracting States:
BE DE ES FR GB NL SE

(88) Date of deferred publication of the search report:
06.07.94 Bulletin 94/27

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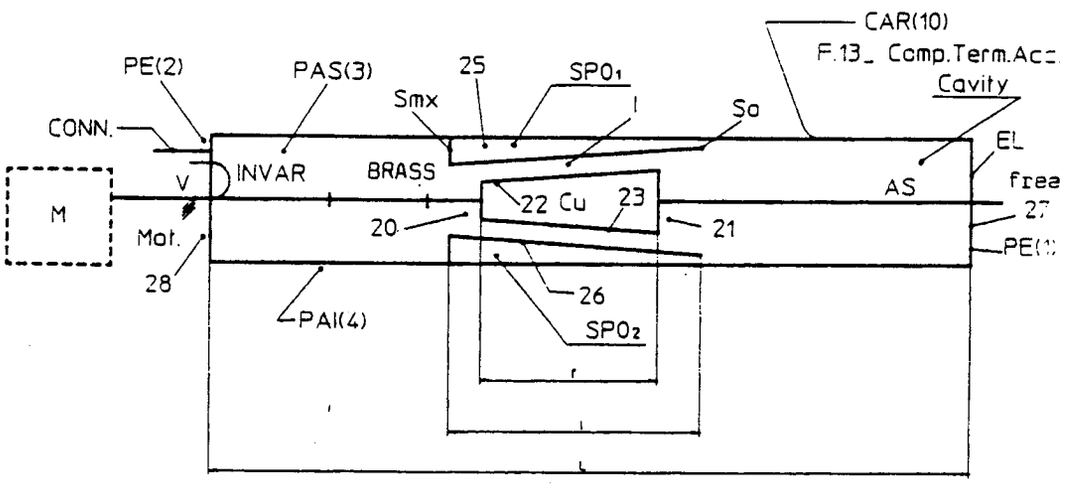
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(54) Thermal compensation of wave guide resonant cavities.

(57) In a wave guide resonant cavity (CAR) formed of f.i. six walls, at least one of which (PE (2)) carries input and output connectors (CON. I, CON.U) and coupling loops (LO), a variable capacity (Cv) is created by displacement of a nucleus or wedge (Cu) on a rodshaped support (AS) which extends along the cavity whole major axis and is free to expand at one end (PE (1)). The maximum value of capacity (Cv) is reached at the maximum displacement of the wedge (Cu) towards said wall (PE(2)) carrying connectors and loops.

Fig.2



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EUROPEAN SEARCH REPORT

Application Number
EP 93 20 1469

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
A	TELECOMMUNICATIONS AND RADIO ENGINEERING, vol.25, no.6, June 1970, WASHINGTON US pages 145 - 149 S.I. ORLOV 'Coaxial resonator with parallel capacitor tuning' * figure 1 * ---	1-3	H01P7/06
A	US-A-4 423 398 (JACHOWSKI ET AL.) * column 5, line 11 - line 34; figures 3A,B * ---	1,3	
A	US-A-2 435 442 (GUREWITSCH) * the whole document * ---	1-4,6,7	
A	US-A-3 413 577 (MASSANO) * column 2, line 36 - column 3, line 35; figure 1 * -----	1,3,4	
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
			H01P

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	29 April 1994	Den Otter, A

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

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.

☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid,

namely claims:

☒ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions,
namely:

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

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namely claims:

☐ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims,

namely claims: