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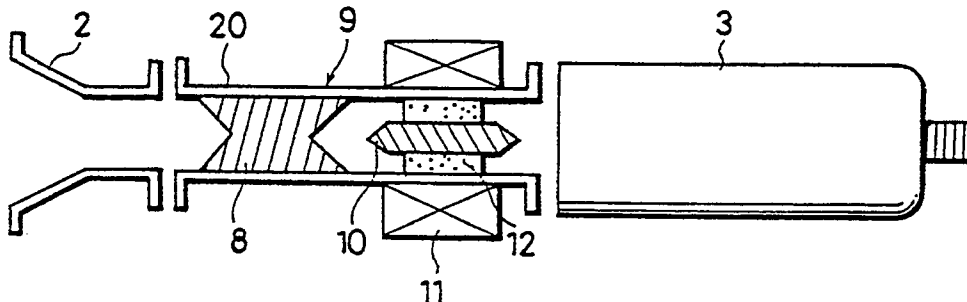
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(54) **Polarization converter having two converting devices therein.**

(57) Disclosed is a polarization converter (9) allowing one down converter to receive four types of polarizations of a horizontal polarization, a vertical polarization, a right-handed circular polarization and a left-handed circular polarization without deteriorating a pass loss characteristic and a return loss characteristic (VSWR characteristic) of an antenna apparatus as a whole. The polarization converter (9) includes a circular waveguide (20) having dielectric plate (8) for converting a circular polarization to a linear polarization, a ferrite pole (10) for changing the direction of the electric field of the linear polarization and a coil (11), all of which are integrally provided therein. As a result, the design is easily obtained which optimizes the return loss characteristic (VSWR characteristic) of the entire antenna apparatus, which allows one converter to receive said four types of polarizations without deteriorating the pass loss characteristic and the return loss characteristic (VSWR characteristic) of the entire antenna apparatus.

FIG.1



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EUROPEAN SEARCH REPORT

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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)
X	DE-U-8 907 672 (MÜLLER) * page 1 - page 3, line 13; claims 1-3,5-7; figures 1-4 *	1-4,9-11	H01Q21/24 H01P1/161 H01P1/175
X	EP-A-0 319 753 (KATHREIN-WERKE) * abstract; claims 1-6; figures 1-3 *	1-3,9-11	
A	GB-A-891 427 (GENERAL ELECTRIC) * page 1, line 12 - page 2, line 18; figure *	1,4-8	
A	US-A-3 166 724 (ALLEN) * claims 1-6; figure 1 *	1,4-8	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H01Q H01P
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 12 SEPTEMBER 1991	Examiner ANGRABEIT
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 I : document cited for other reasons & : member of the same patent family, corresponding document			

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