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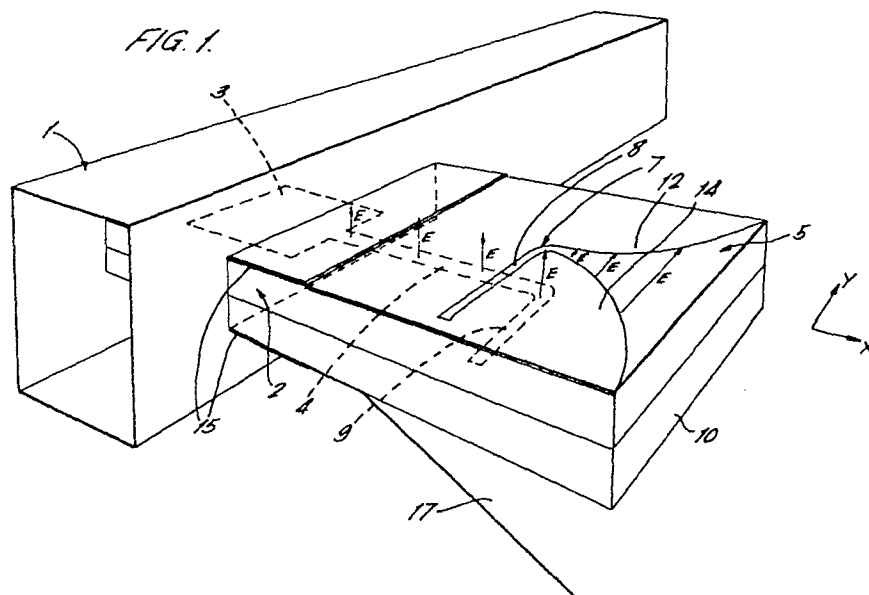
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Slotted waveguide antenna and array.

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An antenna is formed with a hollow waveguide (1) having a narrow slot (2) in one face. A Vivaldi horn type radiator (5) is mounted with a coupling arrangement (3, 4) to couple energy in the waveguide through the slot to the radiator. The slot can be a non-radiating longitudinal slot, parallel to the waveguide axis, and several radiators may be mounted in a non-resonant slot along the length of the waveguide to form a linear resonant array.





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.4)
A	IEEE TRANS. ON MICROWAVE THEORY AND TECHNICS vol. MTT-27, no. 9, September 1979, New York, US; V.M. PANDHARIPANDE et al.: "Equivalent Circuit of a Narrow-Wall Waveguide Slot Coupler" * figure 5 A *	1-4	H 01 Q 13/08
A	US-A-3 176 300 (J.A. KNECKEN) * figure 1, column 2, line 65 - column 3, line 11 *	5,11,18	
A	GB-A-1 142 787 (MARCONI LTD) * figures 1,2, page 2, lines 42-60 *	16,17	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			H 01 Q H 01 P
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 10-06-1989	Examiner DANIELIDIS S
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	