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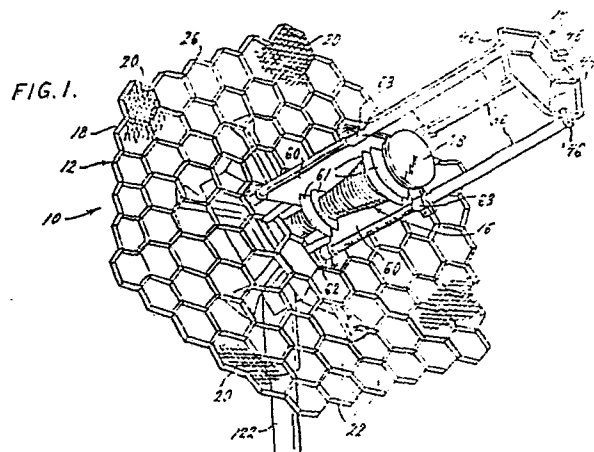
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54 **Cassegrain antenna for TVRO application.**

57 An antenna is of the Cassegrain type with a main reflector (10), subreflector (14) and horn (16), all circularly symmetric. The horn is corrugated and profiled with the near field focal point of the feed deep within the horn. The main reflector and subreflector are shaped in accordance with the horn pattern to optimize the energy distribution over the aperture of the main reflector. The subreflector, horn, and superstructure of the main reflector may all be of plastic molded construction.





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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. 4)
X	DE-A-2 240 893 (GRÜNZWEIG & HARTMANN AG) * Page 2, last section - page 3, section 1; claims 1-4, 21-25 *	1	H 01 Q 19/19 H 01 Q 15/16
Y	EP-A-0 108 515 (CAMBRIDGE ELECTRONIC INDUSTRIES) * Claims 1, 8, 9; figure 1 *	1-4, 12	
Y	PATENT ABSTRACTS OF JAPAN, vol. 5, no. 19 (E-44)[691], 4th February 1981; & JP-A-55 147 005 (MITSUBISHI DENKI K.K.) 15-11-1980 * Abstract *	1-4, 12	
A	DE-A-2 551 545 (SIEMENS) * Claim 1; figure 3 *	1, 4-6, 13	
A	EP-A-0 105 007 (THOMSON-CSF) * Abstract; figures 1-6; claims 1-8 *	1, 7	
A	US-A-3 897 294 (MacTURK) * Abstract; claims 1-4; figures 15, 16 *	1	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
A	ZEITSCHRIFT FÜR FLUGWISSENSCHAFTEN UND WELTRAUMFORSCHUNG, vol. 4, no. 5, September/October 1980, pages 255-267, Köln, DE; W. SCHÄFER: "Stand der Technik auf dem Gebiet grösserer entfaltbarer Parabolantennen-Strukturen für Raumfluggeräte" * Figuren 1, 2, 15, 16 *	1, 8, 10	H 01 Q
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 13-04-1988	Examiner ANGRABEIT F.F.K.
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	