

Title (en)  
Multiple beam deployable space antenna system

Title (de)  
Entfaltbares Weltraumantennensystem mit Vielfach-Strahlungskeulen

Title (fr)  
Système d'antenne spatiale déployable à faisceaux multiples

Publication  
**EP 0421722 B1 19960619 (EN)**

Application  
**EP 90310760 A 19901002**

Priority  
US 41581489 A 19891002

Abstract (en)  
[origin: EP0421722A2] A multiple beam space antenna system for facilitating communications between a satellite switch (100) and a plurality of earth-based stations (1,a,b,) is shown. The antenna is deployed after the satellite is in orbit by inflation of a raft-type supporting structure which contains a number of antenna horns (80). These antenna horns are oriented in substantially concentric circular groups (A-D) about a centrally located antenna horn (80). Each of the antenna beams projects an area on the earth. Each of the areas (a,b) of the beams are contiguous. As a result, one large area is subdivided into many smaller areas to facilitate communications. In addition, a lens (FIG. 7C and 7D) may be employed to focus the beams of the horn antennas.

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IPC 8 full level  
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CPC (source: EP)  
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