

Title (en)
ARRAY ANTENNA

Title (de)
GRUPPENANTENNE

Title (fr)
ANTENNE RÉSEAU

Publication
EP 4087057 A1 20221109 (EN)

Application
EP 20909313 A 20200820

Priority
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Abstract (en)
The present application relates to an array antenna, comprising: an antenna oscillator module; a shielding cavity; and a plurality of dielectric filter modules. The feed network line layer can be formed on the surface of the dielectric substrate by means of coating, etc. Therefore, it is equivalent to integrating the feed network and radiation unit of the conventional antenna on the dielectric substrate. When assembling, there is no need to weld and screw the feed network, which helps to simplify the structure. Further, the shielding cavity provides shielding to the dielectric filter module inside, so multiple dielectric filter modules with the shielding cavity can be functionally equivalent to the traditional multiple dielectric filters. Moreover, each shielding cavity houses at least two dielectric filter modules, so the number of shielding cavity can be much less than the number of dielectric filter module. Compared with the traditional way of directly mounting dielectric filters, more metal shielding cavities can be omitted. Therefore, the above array antenna can achieve light weight.

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