पेटेंट कार्यालय शासकीय जर्नल

OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 20/2022 ISSUE NO. 20/2022

शुक्रवार FRIDAY दिनांकः 20/05/2022

DATE: 20/05/2022

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

:H01Q0009040000, H01Q0001380000,

H01Q0001500000, H01Q0001480000,

H01Q0021080000

:NA

:NA

: NA

:NA

:NA

:NA

:NA

(19) INDIA

(51) International

(86) International

(87) International

Publication No

Filing Date

(61) Patent of Addition

to Application Number

Filing Date

Application Number

Filing Date

(62) Divisional to

Application No

classification

(22) Date of filing of Application :06/05/2022

(43) Publication Date: 20/05/2022

(54) Title of the invention : A SUNDRY-BAND ANNULAR RING-SHAPED MICROSTRIP PATCH ANTENNA WITH A DEFECTED GROUND STRUCTURE

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(57) Abstract:

The present invention relates a sundry-band annular ring-shaped microstrip patch antenna (100) with a defected ground structure. The sundry-band annular ring-shaped microstrip patch antenna (100) comprises a dielectric substrate, a radiation patch and a ground plate. The radiation patch has an annular radiating patch. The annular radiating patch is operationally connected with the dielectric substrate. The ground plate has defected ground structure. The ground plate is operationally connected with the dielectric substrate and annular radiating patch. The defected ground structure plate and annular radiating patch are connected to a microstrip feed line. The defected ground structure plate is a positioned beneath a microstrip feed line or antenna (100) and aligned for proper coupling to the microstrip feed line or antenna (100). The present invention provide a sundry-band annular ring shaped microstrip patch antenna (100) with defected ground structure has an efficiency of 88% and omnidirectional radiation patterns over the entire frequency band.

No. of Pages: 21 No. of Claims: 6