

Title (en)

Dielectric or magnetic medium loaded antenna.

Title (de)

Mit dielektrischem oder magnetischem Medium belastete Antenne.

Title (fr)

Antenne chargée par un milieu diélectrique ou magnétique.

Publication

EP 0280379 A2 19880831 (EN)

Application

EP 88200345 A 19880226

Priority

- JP 4644587 A 19870227
- JP 5982787 A 19870313

Abstract (en)

A loaded antenna (11) comprises a wave source (12) of an arbitrary polarized wave, a reflector (13) disposed near the wave source (12), with the surface opposite to the wave source (12) limited in area, and a dielectric (14) disposed on the opposite side of the reflector across the wave source (12), at least with the surface opposite to the reflector (13) formed parallel to the reflector (13). By properly selecting the mutual interval among the dielectric (14), wave source (12) and reflector(13), the dimension and the dielectric constant of the dielectric (14), the vibration component in the running direction of the wave within the dielectric (14), the vibration component in the direction vertical to the running direction, and the vibration component between the reflector and dielectric are superposed, so that the electromagnetic field distribution in the vicinity of the dielectric (14) is made uniform. Thereby, high gain and high efficiency are realized, and the structure may be notably reduced in size.

IPC 1-7

H01Q 19/09

IPC 8 full level

H01Q 19/09 (2006.01)

CPC (source: EP)

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Cited by

EP0376701A3; DE4035793A1; CN110518365A; EP0310414A3; CN112771728A; WO9300722A1; WO03050912A1; US9608740B2; US9699785B2; US9788326B2; US9836957B2; US9906269B2; US10063280B2; US10194437B2; US10291311B2; US9627768B2; US9742462B2; US9954286B2; US9997819B2; US10135145B2; US10168695B2; US10359749B2; US10411356B2; US9705610B2; US9820146B2; US9853342B2; US9876587B2; US9913139B2; US9947982B2; US10051629B2; US10225025B2; US10355367B2; US10790593B2; US9722318B2; US10090606B2; US10305545B2; US10326689B2; US10341142B2; US10340600B2; US10389029B2; US10686496B2; US10777873B2; US11177981B2; US9628854B2; US9917341B2; US9954287B2; US10139820B2; US10594039B2; US10679767B2; US10916969B2; US11189930B2; US11658422B2; US9755697B2; US9768833B2; US9794003B2; US9871282B2; US9876584B2; US9999038B2; US10009065B2; US10020587B2; US10291334B2; US11837788B2; US9860075B1; US9948355B2; US10069535B2; US10129057B2; US10148016B2; US10587048B2; US10755542B2; US10819542B2; US9680670B2; US9712350B2; US9766330B2; US9847566B2; US9866276B2; US9876605B1; US10136434B2; US10243784B2; US10312567B2; US10498044B2; US11032819B2; US9615269B2; US9866309B2; US9887447B2; US9935703B2; US9973416B2; US9973940B1; US9998932B2; US10050697B2; US10264586B2; US10326494B2; US10446936B2; US9893795B1; US9912027B2; US9948354B2; US10374316B2; US10511346B2; US10530505B2; US10665942B2; US10819035B2; US9640850B2; US9653770B2; US9661505B2; US9674711B2; US9912033B2; US10009067B2; US10033107B2; US10069185B2; US10142086B2; US10320586B2; US10361489B2; US10741923B2; US10784670B2; US11212138B2; US9628116B2; US9762289B2; US9929755B2; US9930668B2; US10051483B2; US10051630B2; US10091787B2; US10224634B2; US10340601B2; US10340603B2; US10382072B2; US10439290B2; US10469107B2; US10547348B2; US10601494B2; US9729197B2; US9769020B2; US9793951B2; US9806818B2; US9871558B2; US9927517B1; US9948333B2; US9960808B2; US10033108B2; US10243270B2; US10566696B2; US10637149B2; US10694379B2; US10811767B2; US9654173B2; US9692101B2; US9876570B2; US9876264B2; US9876571B2; US9882257B2; US9912381B2; US9912382B2; US9967002B2; US10020844B2; US10074890B2; US10096881B2; US10135146B2; US10154493B2; US10178445B2; US10650940B2; US9685992B2; US9742521B2; US9749083B2; US9871283B2; US9882277B2; US9912419B1; US9967173B2; US10074886B2; US10079661B2; US10135147B2; US10144036B2; US10535928B2; US10727599B2; US10938108B2; US11721912B2; US9667317B2; US9705571B2; US9735833B2; US9769128B2; US9780834B2; US9793955B2; US9800327B2; US9838078B2; US9911020B1; US10090594B2; US10103422B2; US10205655B2; US10224981B2; US10298293B2; US10340573B2; US10340983B2; US10382976B2; US10396887B2; US10439675B2; US10594597B2; US10797781B2; US10812174B2; US9608692B2; US9787412B2; US9838896B1; US9847850B2; US9865911B2; US9882657B2; US9904535B2; US9973299B2; US9991580B2; US9998870B1; US10009063B2; US10009901B2; US10027398B2; US10027397B2; US10044409B2; US10090601B2; US10103801B2; US10142010B2; US10225842B2; US10305190B2; US10348391B2; US10349418B2; US10389037B2

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