

Title (en)
Iris polarizer for an antenna primary source

Title (de)
Iris-Polarisator für Antennenprimärstrahler

Title (fr)
Polariseur à iris pour source primaire d'antenne

Publication
EP 0762529 B1 20010314 (FR)

Application
EP 96401830 A 19960827

Priority
FR 9510299 A 19950901

Abstract (en)
[origin: EP0762529A1] The polariser includes a waveguide section (3) with a series of inwardly projecting variable irises. The irises are regularly spaced and are actuated by inductive or capacitive components according to the direction of the linear polarisation of an electric field. The irises can produce a differential phase shift of 90 degrees on two orthogonal components of the electric field to obtain a circularly polarised wave. Pairs of adjusting screws (30,31) are used to optimise the polariser without having to change the dimensions of the guide. The adjusting screws are in the median plane (P) of the irises and in the orthogonal plane (P').

IPC 1-7
H01P 1/17

IPC 8 full level
H01P 1/17 (2006.01)

CPC (source: EP)
H01P 1/173 (2013.01)

Cited by
CN109661747A; US6750735B1; WO0165628A3

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0762529 A1 19970312; EP 0762529 B1 20010314; DE 69612052 D1 20010419; DE 69612052 T2 20010920; FR 2738400 A1 19970307; FR 2738400 B1 19971003

DOCDB simple family (application)
EP 96401830 A 19960827; DE 69612052 T 19960827; FR 9510299 A 19950901