

Title (en)

ANTENNA APPARATUS COMPRISING AN ARRAY OF RADIATORS AND A REFRACTIVE DEVICE

Title (de)

ANTENNENVORRICHTUNG MIT EINER ANORDNUNG AUS STRAHLERN UND EINER REFRAKTIVEN VORRICHTUNG

Title (fr)

APPAREIL D'ANTENNE COMPRENANT UN RÉSEAU DE RADIATEURS ET UN DISPOSITIF DE RÉFRACTION

Publication

**EP 4360166 A1 20240501 (EN)**

Application

**EP 21755749 A 20210805**

Priority

EP 2021071825 W 20210805

Abstract (en)

[origin: WO2023011717A1] An antenna apparatus (200; 400; 500; 600) comprises an array of radiators (202; 402; 502; 602) and a refractive device (204; 404; 504; 604) having an optical axis (206; 406; 506; 606) that passes through the array of radiators. The array of radiators generates a radio beam. The refractive device widens the radio beam in a first plane (208; 408; 508) and narrows the radio beam in a second plane (210; 410; 510) orthogonal to the first plane. The antenna apparatus may be configured for beam scanning, especially for beam scanning in a wide angular range in the first plane. The antenna apparatus may be employed notably for wireless radio frequency communication.

IPC 8 full level

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