

Title (en)
METASURFACE DEVICE

Title (de)
META OBERFLÄCHEN VORRICHTUNG

Title (fr)
DISPOSITIF A METASURFACE

Publication
EP 4189772 A1 20230607 (FR)

Application
EP 21759241 A 20210720

Priority
• FR 2008095 A 20200730
• EP 2021070288 W 20210720

Abstract (en)
[origin: WO2022023125A1] A metasurface device comprising a ground structure (7) able to have a ground plane function, the ground structure (7) being able to be, alternately, in an insulating state in which it prevents the propagation of the surface wave over the front surface (22) of a substrate (2) so as to prevent the antenna element from radiating, and in a conducting state in which the ground structure (7) has the ground plane function for propagating the surface wave over the front surface (22) of the substrate (2) from the transceiver device to the conductive tabs, or vice versa, the ground structure (7) being able to change from the insulating state to the conducting state by virtue of the ground structure (7) being illuminated at what is called a switching wavelength.

IPC 8 full level
H01Q 3/24 (2006.01); **H01Q 3/26** (2006.01); **H01Q 15/00** (2006.01)

CPC (source: EP US)
H01Q 3/247 (2013.01 - EP US); **H01Q 3/2676** (2013.01 - EP US); **H01Q 15/0086** (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022023125 A1 20220203; EP 4189772 A1 20230607; FR 3113199 A1 20220204; FR 3113199 B1 20240628; US 2023275356 A1 20230831

DOCDB simple family (application)
EP 2021070288 W 20210720; EP 21759241 A 20210720; FR 2008095 A 20200730; US 202118017852 A 20210720