

Title (en)
SATELLITE GROUND TERMINAL UTILIZING FREQUENCY-SELECTIVE SURFACE SUBREFLECTOR

Title (de)
SATELLITENBODENTERMINAL MIT VERWENDUNG VON FREQUENZSELEKTIVEM OBERFLÄCHENREFLEKTOR

Title (fr)
TERMINAL TERRESTRE DE TÉLÉCOMMUNICATION PAR SATELLITE UTILISANT UN RÉFLECTEUR SECONDAIRE À SURFACE SÉLECTIVE EN FRÉQUENCE

Publication
EP 3631897 A1 20200408 (EN)

Application
EP 18733057 A 20180529

Priority
• US 201715610447 A 20170531
• US 2018034960 W 20180529

Abstract (en)
[origin: WO2018222623A1] A device and method are described for duplex satellite communication over a single satellite antenna. A satellite ground terminal may utilize a frequency-selective surface module including a frequency-selective surface as a subreflector acting as a frequency diplexer to separate signals received and/or transmitted by a first feed and a second feed of a satellite ground terminal, where each feed has a separate antenna horn. The frequency-selective surface module may be used in combination with a second subreflector such that a first feed and a second feed of the satellite ground terminal are implemented on the same side of the frequency-selective surface module.

IPC 8 full level
H01Q 19/17 (2006.01); **H01Q 15/00** (2006.01); **H01Q 19/19** (2006.01)

CPC (source: EP)
H01Q 15/0033 (2013.01); **H01Q 19/17** (2013.01); **H01Q 19/19** (2013.01)

Citation (search report)
See references of WO 2018222623A1

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

DOCDB simple family (publication)
WO 2018222623 A1 20181206; BR 112019025429 A2 20200616; EP 3631897 A1 20200408

DOCDB simple family (application)
US 2018034960 W 20180529; BR 112019025429 A 20180529; EP 18733057 A 20180529