

Title (en)

RECTIFIER FOR MILLIMETRE-WAVE AC VOLTAGE SIGNALS

Title (de)

GLEICHRICHTER FÜR MILLIMETER-WELLEN-WECHSELSPANNUNGSSIGNALE

Title (fr)

REDRESSEUR POUR SIGNAUX DE TENSION ALTERNATIVE À ONDES MILLIMÉTRIQUES

Publication

**EP 3984126 A1 20220420 (DE)**

Application

**EP 20733249 A 20200612**

Priority

- DE 102019208582 A 20190613
- EP 2020066337 W 20200612

Abstract (en)

[origin: WO2020249753A1] The present invention relates to a rectifier cell (1) for rectifying an electrical AC voltage, which rectifier cell comprises a transistor series circuit having a first field effect transistor (2) and a second field effect transistor (3). A first frequency-independent voltage divider (6) connected in parallel with the transistor series circuit has a first node which is connected to the gate electrode of the first field effect transistor (2). A second frequency-independent voltage divider (7) connected in parallel with the transistor series circuit has a second node which is connected to the gate electrode of the second field effect transistor (3). In this case, the first and the second node of the frequency-independent voltage dividers (6, 7) are additionally each connected to earth via a bias capacitor (8.1, 8.2).

IPC 8 full level

**H02M 7/217** (2006.01); **G06K 19/07** (2006.01); **H02J 50/20** (2016.01); **H02M 7/25** (2006.01)

CPC (source: EP US)

**G06K 19/0708** (2013.01 - EP); **G06K 19/0715** (2013.01 - EP); **G06K 19/0723** (2013.01 - US); **H02J 50/20** (2016.02 - EP); **H02M 7/217** (2013.01 - EP US); **H02M 7/25** (2013.01 - EP); **G06K 19/0713** (2013.01 - EP)

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)

**DE 102019208582 A1 20201217**; EP 3984126 A1 20220420; US 2022247323 A1 20220804; WO 2020249753 A1 20201217

DOCDB simple family (application)

**DE 102019208582 A 20190613**; EP 2020066337 W 20200612; EP 20733249 A 20200612; US 202017596387 A 20200612