

Title (en)  
ANTENNA

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Publication  
**EP 3764469 A4 20210317 (EN)**

Application  
**EP 18913065 A 20180327**

Priority  
CN 2018080678 W 20180327

Abstract (en)  
[origin: EP3764469A1] Embodiments of this application disclose an antenna. The antenna is disposed on an insulation medium of a circuit board, and the antenna includes a loop radiator, a signal feed-in part, a first conductive ground structure, and a second conductive ground structure. A first end of the loop radiator is connected to the first conductive ground structure, a second end of the loop radiator is connected to the signal feed-in part, and the loop radiator independently generates a first radiation signal based on a function of a current. The loop radiator and the second conductive ground structure form a groove, the loop radiator and the second conductive ground structure jointly generate a second radiation signal in an opening direction of the groove based on a function of a current, and a radiation direction of the first radiation signal is different from a radiation direction of the second radiation signal. All of the signal feed-in part, the first conductive ground structure, and the second conductive ground structure are connected to a radio frequency circuit of the circuit board. The antenna provided in the embodiments of this application can send signals in two directions, so that the antenna has a wider radiation range.

IPC 8 full level  
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Citation (search report)

- [XA] US 2016336649 A1 20161117 - YU DONG [CN], et al
- [XA] US 2016359231 A1 20161208 - YANG CHUNG-WEN [TW]
- [XA] WO 2016138650 A1 20160909 - HUAWEI TECH CO LTD [CN]
- [A] US 9019163 B2 20150428 - ASANUMA KENICHI [JP], et al
- See references of WO 2019183798A1

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

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