

Title (en)  
FEED SYSTEM, ARRAY ANTENNA, AND BASE STATION

Title (de)  
EINSPEISESYSTEM, GRUPPENANTENNE UND BASISSTATION

Title (fr)  
SYSTÈME D'ALIMENTATION, ANTENNE RÉSEAU ET STATION DE BASE

Publication  
**EP 3923416 A4 20220518 (EN)**

Application  
**EP 19901466 A 20191225**

Priority

- CN 201811637333 A 20181229
- CN 2019128466 W 20191225

Abstract (en)  
[origin: EP3923416A1] Embodiments of this application relate to the field of mobile communications technologies, and provide a feed system, an array antenna, and a base station, to provide a phase-shift feed system having a simple structure. The feed system is located on a back surface of a metal plate. The feed system includes a plurality of first feed chambers and a plurality of first feed striplines suspended in the plurality of first feed chambers. Each of the plurality of first feed striplines includes a plurality of output ports. The plurality of first feed chambers and a ground plane of the metal plate share a metal surface. The metal surface has a plurality of openings corresponding to a plurality of first radiating elements located on a front surface of the metal plate. The plurality of output ports of each first feed stripline are connected, in a one-to-one manner, to the plurality of first radiating elements through the plurality of openings. The plurality of first feed striplines are used to provide transmission signals for the plurality of first radiating elements.

IPC 8 full level  
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CPC (source: CN EP)  
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Citation (search report)

- [XAY] US 2018248256 A1 20180830 - XIAO WEIHONG [CN], et al & WO 2017070952 A1 20170504 - HUAWEI TECH CO LTD [CN]
- [YA] CN 107819198 A 20180320 - HUAWEI TECH CO LTD
- [A] US 2015364832 A1 20151217 - KARLSSON DAN [SE], et al
- See also references of WO 2020135533A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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