

Title (en)  
RF MODULE FOR ANTENNA AND ANTENNA APPARATUS COMPRISING SAME

Title (de)  
HF-MODUL FÜR ANTENNE UND ANTENNENVORRICHTUNG DAMIT

Title (fr)  
MODULE RF POUR ANTENNE ET APPAREIL D'ANTENNE LE COMPRENANT

Publication  
**EP 4262016 A1 20231018 (EN)**

Application  
**EP 21903829 A 20211208**

Priority  
• KR 20200170576 A 20201208  
• KR 2021018509 W 20211208

Abstract (en)  
Proposed are an antenna RF module and an antenna apparatus including the antenna RF modules. The antenna RF module includes an RF filter arranged on a front surface of a main board, a radiation element module arranged on a front surface of the RF filter, at least one reflector grill pin arranged between the RF filter and the radiation element module and grounding (GND) the radiation element module, outside air being introduced from in front of the RF filter to in back of the RF filter or being discharged from in back of the RF filter to in front of the RF filter through the at least one reflector grill pin, and a radome cover combined with the front surface of the RF filter and protecting the radiation element module from the outside. The antenna RF module provides the advantage of greatly improving overall performance in heat dissipation.

IPC 8 full level  
**H01Q 1/38** (2006.01); **H01P 1/20** (2006.01); **H01Q 1/02** (2006.01); **H01Q 1/42** (2006.01)

CPC (source: EP KR)  
**H01P 1/20** (2013.01 - KR); **H01P 1/2053** (2013.01 - EP); **H01Q 1/02** (2013.01 - EP KR); **H01Q 1/38** (2013.01 - KR); **H01Q 1/42** (2013.01 - KR); **H01Q 21/0025** (2013.01 - EP)

Citation (search report)  
See references of WO 2022124783A1

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Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

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