

Title (en)  
RADIOFREQUENCY MODULE

Title (de)  
HOCHFREQUENZMODUL

Title (fr)  
MODULE RADIOFRÉQUENCE

Publication  
**EP 3804034 A1 20210414 (FR)**

Application  
**EP 18834018 A 20181206**

Priority  
• CH 6992018 A 20180601  
• IB 2018059734 W 20181206

Abstract (en)  
[origin: WO2019229515A1] Radiofrequency module, comprising: a first layer having an array of radiating elements (30), each radiating element having a cross section allowing for support of at least one wave propagation mode; a second layer forming a waveguide array; and a fourth layer forming a port array, the second layer being interposed between the first layer and the fourth layer, each waveguide being connected to a port on one side and to a radiating element on the other side in order to transmit a radiofrequency signal between this port and this radiating element, the pitch between two ports being different to the pitch between the radiating elements, so that the surface area of the first layer is different from the surface area of the fourth layer, the waveguides being curved.

IPC 8 full level  
**H01Q 21/00** (2006.01); **H01Q 13/02** (2006.01); **H01Q 13/06** (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP IL US)  
**H01Q 13/0275** (2013.01 - IL US); **H01Q 13/06** (2013.01 - IL US); **H01Q 15/24** (2013.01 - IL US); **H01Q 21/0006** (2013.01 - EP IL); **H01Q 21/005** (2013.01 - IL US); **H01Q 21/064** (2013.01 - EP IL); **H01Q 13/0275** (2013.01 - EP); **H01Q 13/06** (2013.01 - EP)

Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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**IB 2018059734 W 20181206**; EP 18834018 A 20181206; IL 27869220 A 20201112; US 202217657802 A 20220404; US 202318358344 A 20230725