

Title (en)  
COMPACT, MULTIBAND AND OPTIONALLY RECONFIGURABLE HIGH-IMPEDANCE SURFACE DEVICE AND ASSOCIATED PROCESS

Title (de)  
KOMPAKTE MEHRBAND- UND OPTIONAL REKONFIGURIERBARE HOCHOHMIGE OBERFLÄCHENVORRICHTUNG UND ZUGEHÖRIGES VERFAHREN

Title (fr)  
DISPOSITIF DE SURFACE À HAUTE IMPÉDANCE COMPACT, MULTIBANDES ET ÉVENTUELLEMENT RECONFIGURABLE, ET PROCÉDÉ ASSOCIÉ

Publication  
**EP 3227963 B1 20180905 (FR)**

Application  
**EP 15808741 A 20151126**

Priority  
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Abstract (en)  
[origin: WO2016087749A1] A high-impedance surface device (1) comprises at least two separate, substantially cylindrical compartments (2r24) filled with a dielectric material, having inside surfaces in an electrically conductive material, and each having, at one end, a single aperture (3), these apertures (3) being oriented on a given side and covered with at least one periodic structure of electrically conductive patterns (4) in order to form electromagnetic resonators, at least two of these resonators having different resonant wavelengths. These compartments (2i-24) are separated from one another by a distance smaller than the shortest resonant wavelength, and the periodic structure has a spatial period shorter than half this shortest resonant wavelength.

IPC 8 full level  
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