

Title (en)
ARTIFICIAL MAGNETIC CONDUCTOR, AND ANTENNA

Title (de)
KÜNSTLICHER MAGNETISCHER LEITER UND ANTENNE

Title (fr)
CONDUCTEUR MAGNETIQUE ARTIFICIEL ET ANTENNE

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Application
EP 11775953 A 20111027

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Abstract (en)
[origin: WO2012059391A1] The invention relates to an artificial magnetic conductor having a surface impedance of greater than 100 Ω, said conductor comprising: a ground plane, at least one first frequency-selective surface that is transparent to certain wavelengths and reflective of a range of wavelengths, said frequency-selective surface including an array of resonant conductive elements arranged side-by-side in at least two different directions parallel to the ground plane, wherein each resonant element consists of at least one sub-layer (38, 42) of ferromagnetic material, the relative permeability of which is greater than 10 for a frequency of 2 GHz, and the thickness of which is strictly less than the thickness of the skin of said ferromagnetic material.

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Cited by
CN109841941A; CN109216931A; US11309620B2

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