

Title (en)

NEW ELECTROMAGNETIC-WAVE-ABSORBING MATERIALS FOR VARIOUS APPLICATIONS

Title (de)

NEUE MATERIALIEN ZUR ABSORPTION VON ELEKTROMAGNETISCHEN WELLEN FÜR VERSCHIEDENE ANWENDUNGEN

Title (fr)

NOUVEAUX MATERIAUX ABSORBANT LES ONDES ELECTROMAGNETIQUES POUR APPLICATIONS DIVERSES

Publication

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Application

EP 17716569 A 20170320

Priority

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Abstract (en)

[origin: WO2017162973A1] One subject of the present invention is an electromagnetic-wave-absorbing composite material comprising a carrier matrix (11) and an electromagnetic-wave-absorbing filler (12). According to the invention, the carrier matrix (11) is a cork matrix, which is formed of particles the equivalent diameter D_{el} of which is comprised between 10 μm and 5 mm, and the composite material (1) has a real permittivity higher than 1.2 and a dielectric loss tangent $\tan \delta$ higher than 0.1. Another subject of the present invention is a method for producing such a material, and the use of this material as an absorber, in particular in an anechoic chamber, or as a radar absorber in stealth devices, or even to improve the electromagnetic compatibility of electronic devices.

IPC 8 full level

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