

Title (en)

NANOPARTICLES, NANOFUNCTIONALISED SUBSTRATE AND DEVICE WITH ANTIVIRAL AND/OR ANTIBACTERIAL AND/OR ANTIFUNGAL PHOTOCATALYTIC ACTIVITY

Title (de)

NANOPARTIKEL, NANOFUNKTIONALISIERTES SUBSTRAT UND VORRICHTUNG MIT ANTIVIRALER UND/ODER ANTIBAKTERIELLER UND/ODER ANTIMYKOTISCHER PHOTOKATALYTISCHER AKTIVITÄT

Title (fr)

NANOPARTICULES, SUBSTRAT NANOFONCTIONNALISÉ ET DISPOSITIF À ACTIVITÉ PHOTOCATALYTIQUE ANTIVIRALE ET/OU ANTIBACTÉRIENNE ET/OU ANTIFONGIQUE

Publication

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Application

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- IB 2021056631 W 20210722

Abstract (en)

[origin: WO2022018678A1] The invention relates to the use of nitrogen-doped TiO<sub>2</sub> (TiO<sub>2</sub>-N) nanoparticles activatable by UV light and/or visible light and/or sunlight, of a substrate nanofunctionalised with said nanoparticles and of a device comprising said substrate and at least one light source configured to emit radiation having a wavelength comprised between 10 and 1500 nm, for killing a virus and/or fungi and/or bacteria. The invention also relates to a method for killing said virus and/or said fungi and/or said bacteria, comprising the steps of: (A) providing said nanoparticles or (A') said substrate or (A'') said device; (B) placing said nanoparticles or (B') said substrate or (B'') said device in contact with said virus and/or said fungi and/or said bacteria; and (C) irradiating said nanoparticles or (C')/(C'') said substrate with a source of UV light and/or visible light and/or sunlight.

IPC 8 full level

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