Functionalized Fabrics Using Nanotechnology for Enhanced Textile Applications

TECHNOLOGY #P16001

Categories

Energy and Environment

Technology & Applications

This product development demonstrates a combination features; enhanced anti-bacterial properties enabled by hybrid nano-silver is embedded on the outer layer of the tested fabrics to kill bacteria. The hybrid nano-silver is stable and consistently transparent at temperate conditions. The medical apparel having nano-silver does not change color by oxidization when exposed to air, water and/or light.) with insect repellency effect

Advantages

Medical apparels; namely facemask, apron and gloves are desirable to have anti-bacterial properties. Hybrid nano-silver is embedded on the outer layer of the medical apparels to kill bacteria. The hybrid nano-silver is created by doping nano-silver particles on titanium dioxide. The hybrid nano-silver is stable and consistently transparent at temperate conditions. The medical apparel having nano-silver does not change color by oxidization when exposed to air, water and/or light.

Intellectual Property

Patent: PI2020003058 Functionalized Fabrics Using Nanotechnology for Enhanced Textile Applications

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