DOPAMINE NANOCAPSULES AND USES THEREOF (BIRAD)

Shai Rahimipour, Bar-Ilan University, Exact Sciences, Chemistry

The Problem

The presence of microbial contamination of surfaces poses a serious problem from the point of view of health protection. There is a growing market demand to improve effectivity, safety, endurance and cost of anti-microbial coating.

The Solution

We propose a novel bio-inspired nanocapsule that can firmly attach to any surface and kill encapsulated bacteria.

The Commercial Benefit

Our leading, innovative anti-microbial coating reduces costs and has better performance compared to current microbial coatings. This coating excels in its binding to the surface and in its slow and controlled release of the bacteria killer. The coating is environmentally friendly and is less expensive to manufacture than present materials.mercial Benefit

Market Potential

Antimicrobial Coatings Market is projected to reach USD 4.19 Billion by 2021, at a CAGR of 12.1% from 2016 to 2021. Medical is the biggest end-use application of antimicrobial coatings. Antimicrobial coatings are widely used in the medical and healthcare industry. Antimicrobial coatings are mostly used for applications such as, catheters, medical devices, medical electronics, and trays among others.

Target Markets / Industries

Paints, bandages, catheters, toys and many other industries
Medical Device Implants,
Food Production Surfaces,
Personal Hygiene,
Tissue Culture Plastic,
Antibacterial Cloths,
Wound-Healing Bandages

Intellecual Property

Granted Patent (US 9,770,418)

Team: Primary Invenor

Prof. Shai Rahimipour
Prof. Rahimipour is a senior lecturer at the Department of Chemistry of Bar-Ilan University
Prof. Shai Rahimipour is a returning scientist from the Scripps Research Institute in California.
Prof. Rahimipour received his PhD from The Weizmann Institute of Science, and conducted his postdoctoral research in The Weizmann Institute of Science.
For the last ten years, Prof. Shai Rahimipour is a member in the editorial board of ARKIVOC Journal.

Future Research

Will be discussed on demand.

The Opportunity

We are looking for investors that are willing to support our research and commercialize this new invention.

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