

Title (en)

METHODS TO PREVENT TISSUE COLONIZATION OF PATHOGENS AND FOR TREATMENT OF BIOFILMS ON ANIMAL TISSUES

Title (de)

VERFAHREN ZUR VERMEIDUNG VON GEWEBEKOLONIALISIERUNG VON PATHOGENEN UND ZUR BEHANDLUNG VON BIOFILMEN AUF TIERGEWEBE

Title (fr)

PROCÉDÉS VISANT À EMPÊCHER LA COLONISATION DE TISSUS PAR DES AGENTS PATHOGÈNES ET À TRAITER LES BIOFILMS PRÉSENTS SUR DES TISSUS ANIMAUX

Publication

EP 3297435 A4 20190123 (EN)

Application

EP 16797277 A 20160519

Priority

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- US 201514716566 A 20150519
- US 2016033208 W 20160519

Abstract (en)

[origin: WO2016187391A1] An antimicrobial product and methods of use are provided. The antimicrobial product includes a water-soluble antimicrobial organosilane (3-(trihydroxysilyl) propyldimethyloctadecyl ammonium chloride) and various additional adjuvant compounds, including anti-inflammatory medications, antiseptics, penetrants and/or detergents. An example delivery system including a microcapsule encasing the product is also described. Methods of use include embedding a delivery system within an article, such as bandages, inserts or wound coverings, the microcapsule containing the product which is released by a mechanism and at a time particular to the intended use of the article. The methods include topically treating a biofilm infection on an animal tissue substrate by disrupting existing microbial biofilm growth, penetrating existing biofilms, thereby killing microbes, and also through providing residual bonded organosilane, then killing persister cell microbes that through degrees of dormancy have escaped being killed.

IPC 8 full level

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Citation (search report)

- [I] WO 2007092452 A2 20070816 - CARRIGAN MICHAEL G [US]
- [I] WO 2013079957 A1 20130606 - UNIV COVENTRY [GB], et al
- See references of WO 2016187391A1

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