

Title (en)
APPARATUS AND METHOD FOR BIOFILM MANAGEMENT

Title (de)
VORRICHTUNG UND VERFAHREN ZUR BIOFILMVERWALTUNG

Title (fr)
APPAREIL ET PROCÉDÉ DE GESTION DE BIOFILM

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Application
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Abstract (en)
[origin: WO2022251278A2] The subject of this invention is to use beneficial reactive support media in the form of reactive support bases or stratum that provide structural or biochemical benefits to the growth or function (including agglutination) of biofilms. The functional aspect includes the provision of a polymeric, cellulosic or silicic framework. The framework could also contain charge moieties such as cations, anions, amines or carboxyl groups whose pKa's allow them to be charged at the physiological pH for an organism. For example, a cation may provide a positive charge to help the adherence of a negative charge extracellular polymeric substance. The reactive support media may include biodegradable or refractory plastics, alginates or uronic acids or extracted bacterial EPS. These materials are reacted, retained or removed based on their physical characteristics.

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