

Title (en)

MICROSTRUCTURED SURFACE WITH INCREASED MICROORGANISM REMOVAL WHEN CLEANED, ARTICLES AND METHODS

Title (de)

MIKROSTRUKTURIERTE OBERFLÄCHE MIT ERHÖHTER MIKROORGANISMENENTFERNUNG BEIM REINIGEN, ARTIKEL UND VERFAHREN

Title (fr)

SURFACE MICROSTRUCTURÉE AVEC ÉLIMINATION ACCRUE DES MICRO-ORGANISMES LORS DU NETTOYAGE, ARTICLES ET PROCÉDÉS

Publication

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Application

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Abstract (en)

[origin: WO2021033162A1] Films and articles are described comprising a microstructured surface having an array of peak structures and adjacent valleys. For improved cleanability, the valleys preferably have a maximum width ranging from 10 microns to 250 microns and the peak structures have a side wall angle greater than 10 degrees. The peak structures may comprise two or more facets such as in the case of a linear array of prisms or an array of cube-corners elements. The facets form continuous or semi-continuous surfaces in the same direction. The valleys typically lack intersecting walls. Also described are methods of making and methods of use. The microstructured surface of the article can be prepared by various microreplication techniques such as coating, injection molding, embossing, laser etching, extrusion, casting and curing a polymerizable resin; and bonding microstructured film to a surface or article with an adhesive.

IPC 8 full level

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