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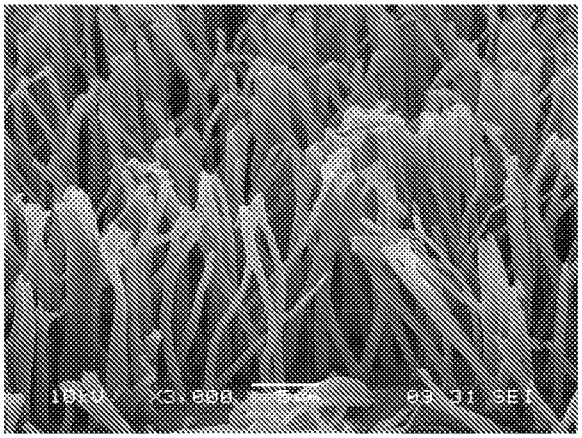
[Continued on next page]

(54) Title: POLYMERIC STRUCTURES FOR ADSORBING BIOLOGICAL MATERIAL AND THEIR METHOD OF PREPARATION

FIG. 1



(57) Abstract: A biologic-adsorbent, e.g., protein-adsorbent, material is prepared by forming a polymeric substrate into structures having high surface area topography whose biologic adsorbing properties can be controlled. Biologic adsorption by these structures of optimized high surface area topography is increased by mild treating of the surfaces, e.g., by oxygen plasma, without substantially altering topography. Structures can have tailored geometric features including microstructures, e.g., pillars, with a diameter from 100 nm - 50 μm and height greater than 1 μm.

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