

ABSTRACT

TITLE OF INVENTION: STRUCTURED ELEMENTS AND METHODS OF USE

Structured elements with capabilities for stream flow division and distribution and mitigation of undesired species that exceed those of conventionally available materials are provided. The structured elements provide increased opportunities for surface attraction, retention and coalescence of undesired species in a process stream. The functional contact surfaces of the structured elements can include one or more of the faces of cells, the surfaces of struts connecting cells, the surfaces of nodes connecting struts, and the surfaces of asperities or irregularities caused by channels, flutes, spikes, fibrils or filaments in or on the material surfaces.

[Figure 1]