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(54) Title: SHAPED ARTIFICIAL POLYMER ARTICLES WITH CLOSED-CELL METAL OXIDE PARTICLES

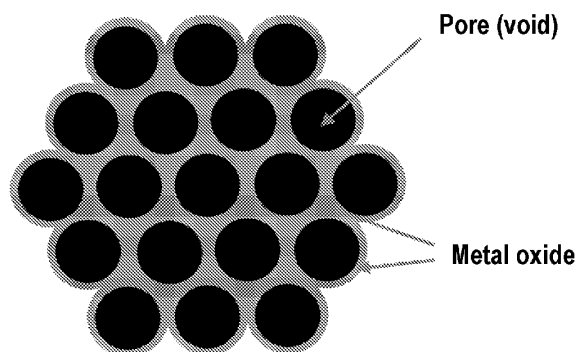


FIG. 1A

(57) Abstract: Disclosed in certain embodiments are polymer compositions comprising closed-cell metal oxide particles and methods of preparing the same. In at least one embodiment, a closed-cell metal oxide particle comprises a metal oxide matrix defining an array of closed-cells. Each closed-cell encapsulates a media-inaccessible void volume. The outer surface of the closed-cell metal oxide particle is defined by the array of closed-cells.

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