ABSTRACT OF THE DISCLOSURE

OPTIMAL CORRUGATED STRUCTURED PACKING

A structured packing having a surface area density in the range of about 500 m^2/m^3 to about 675 m^2/m^3 includes a plurality of corrugated plates disposed in vertically parallel relation. Each plate has at least one aperture and a plurality of regularly spaced and substantially parallel corrugations disposed in crisscrossing relation to the corrugations of an adjacent plate. The apertures have an equivalent diameter of less than about 4 millimeters but greater than about 2 millimeters. The corrugations have a corrugation angle ($\propto$) relative to horizontal in the range of about 40° to about 60°. Each corrugation, when approximated to be substantially a triangular cross-section, has an included angle (β) defined by two sides of the corrugation in the range of about 90° to about 100°. The structured packing is used in exchange columns for exchanging heat and/or mass between a first phase and a second phase in processes such as cryogenic air separation. A method also is provided for installing the structured packing in an exchange column
(Figure 5B)

This Sheet Has Been Replaced

