CLAIMS:

What is claimed is:

1. ~~A simulated moving bed adsorption~~ An apparatus adapted for a process for separating a product from at least one multicomponent feed by simulated countercurrent adsorptive separation comprising plural sieve chambers fluidly connected with plural bedlines A_1 through A_{n+j}, wherein $n>2$ and $n+j$ is the total number of bedlines, which in turn are fluidly connected with a matrix of fluid communication conduits to distribute plural input streams, including desorbent, a primary flush, a secondary flush, and at least one multicomponent feed, and plural output streams, including a primary flush output and a secondary flush output, extract comprising the product, and raffinate, from said plural sieve chambers, the improvement characterized by a fluid connection between a the primary flush ~~out~~ output communication conduit ~~201 directly to a~~ and the secondary flush input ~~204 and/or 205~~ communication conduit, whereby the primary flush ~~out~~ output may be routed directly for use as the secondary flush ~~in,~~ without being routed through intervening distillation apparatus~~.~~, and wherein the secondary flush input enters a bedline (A_{n+4}) four bedlines upstream of the bedline (A_n) from which the extract is withdrawn.