

SYSTEMS AND METHODS FOR LIQUID SEPARATION

ABSTRACT

An apparatus and method for separating components of a fluid mixture. The apparatus includes a vortex generation zone shaped as an inverse truncated cone, a solids collection zone, a separation zone, one or more fluid inlets, one or more gas inlets, one or more fluid outlets, and one or more gas outlets. Gas is introduced into fluid in the vortex separation zone to facilitate the separation of components of the fluid mixture.

Fig. 3