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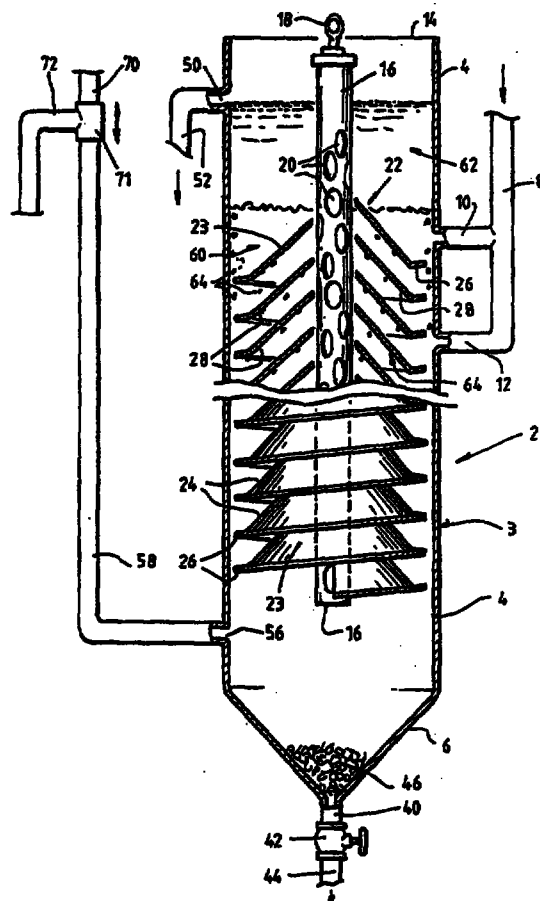
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(54) Title: SEPARATION APPARATUS AND METHOD

(57) Abstract

A separation apparatus, particularly for separating two fluids having different densities or specific gravities, is described. The apparatus is provided with a baffle arrangement (22) located within cylindrical housing (3) comprising a plurality of conical-shaped baffles having sloping wall surfaces (24). The conical baffles may be arranged in a nested or stacked relationship or may be connected together to form a continuous helix. A convection current is set up within the apparatus such that one part of the flow is through the baffles in the direction from the base of the conical baffles to the centrally located aperture and the other part of the flow is along the interior walls of the apparatus in a gap between the peripheral edge of the base of the conical baffles and the interior wall. The material to be separated is discharged from the apparatus through a high level outlet acting as an overflow weir.



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