

LIQUID SEPARATION APPARATUS AND METHOD

Abstract of the Disclosure

In a process of separating a liquid sample having phase portions of different densities by centrifugal separation, a phase separator container is employed. The phase separator container comprises a housing having concentric inner and outer cylindrical walls defining a longitudinal axis and a top wall and further a piston body constituting a bottom wall of the housing. The piston body defines together with the outer cylindrical wall, the inner cylindrical wall and the top wall, an annular chamber for receiving the liquid sample. The piston body is displaceable within the annular chamber for draining a phase portion separated from the liquid sample through a drain conduit means communicating with the annular chamber. The phase separation chamber further comprises a reaction chamber to which the phase portions exposed from the annular chamber is processed. The apparatus further includes a liquid supply means for supplying the liquid sample to the annular chamber, a motor means for rotating the phase separation container round its longitudinal axis at a rotational speed causing a separation of the liquid sample into the phase portions, and an actuator means for displacing the piston body within the annular chamber.