

The present invention relates to a hydrocyclone which includes: a body (10) defining a hollow inner recess (11), said hollow inner recess (11) having an upper portion having a cylindrical cross-section (110) extended by a lower portion having a frusto-conical cross-section (111), the diameter of said frusto-conical cross-section (111) decreasing towards the lower portion of said body (10); an intake (12) for a mixture of liquid and solids leading into said cylindrical portion (110); an underflow outlet (13), for discharging said solids essentially separated from said liquid, wherein said underflow outlet is in communication with the lower end of said inner recess (11); an overflow outlet (15), for discharging said liquid essentially separated from said solids, wherein said overflow outlet is in communication with the upper end of said inner recess (11). Said overflow outlet (13) extends from the lower end of said lower portion having a frusto-conical cross-section (111) and has a frusto-conical cross-section, the diameter of which increases towards the lower portion of said hydrocyclone.