

Separator for separating multiphase mixtures consists of a housing equipped with a tangential inlet pipe for feeding the mixture to be purified, a sludge collector, a side outlet pipe for discharging the purified liquid, and a vertical axial outlet pipe, and a first-stage cleaning chamber and a second-stage cleaning chamber with a second-stage cleaning guide device located inside the housing. The housing consists of the upper and the lower cylindrical-conical halves separated by a partition, through which, in alignment with the upper and lower cylindrical-conical halves of the housing, an internal axial pipe is installed, and inside the upper cylindrical-conical half of the housing, in alignment with it, a hemispherical diffuser is secured by means of ribs, and in the lower cylindrical-conical half of the housing, in alignment with it, a cylindrical insert connected to the partition is located, inside which a guide apparatus is placed, to which an internal cylindrical-conical housing with an additional slag collector is attached, wherein the first-stage cleaning chamber is formed by the inner surface of the lower cylindrical-conical half of the housing and the outer surface of the inner cylindrical-conical housing, and the second-stage cleaning chamber is formed inside the inner cylindrical-conical housing.