

The invention relates to devices for separation of suspensions and may be applied in the food, chemical and other industries.

The hydrocyclone contains a body, made in the form of a hollow cylinder, joined in the lower part with a hollow cone, a cover with stuffing box seal, a tangentially fixed liquid supply pipe, pipes for discharge of the purified liquid and of the concentrated mass respectively, as well as a cone, concentrically installed with the cone of the hydrocyclone body, forming an annular channel, communicating with the pipe for discharge of the concentrated mass. Novelty of the hydrocyclone consists in that the pipe for discharge of the purified liquid is provided with a cone, oriented with its closed smaller base to the pipe for discharge of the concentrated mass, onto the cone lateral surface being executed helical through windows with overhanging helical plates, curved opposite to the liquid movement direction and forming channels for dispersed and uniform discharge from the rotary liquid inner part of the more clarified fraction thereof, and the cone placed above the pipe for discharge of the concentrated mass, the surface of which is made smooth, is installed with the possibility of displacement over the vertical and fixation in the given position.

Claims: 1

Fig.: 2