

The invention relates to installations for homogenization, emulsification and dispersion of liquid mixtures and can be used in the food, chemical and petroleum-refining industries.

The installation for homogenization and cavitation dispersion of liquid mixtures comprises a cylindrical body (1), closed on two sides with covers (2, 3) and two working chambers formed into the body (1). In each working chamber there is installed a stator (12, 13) and a rotor (6, 7), each being fixed on a drive shaft (4, 5). The stators (12, 13) and the rotors (6, 7) include perforated rings (8, 9, 14, 15) with holes. The first working chamber is equipped with an inlet fitting, and the second – with an outlet fitting. The installation is equipped with two cylinders (10, 11), placed in the working chambers, hydraulically connected and closed on one side with covers (17, 18). In the second working chamber it is mounted in the center of the cover (18) a Laval nozzle (19), opposite to the outlet of which it is placed an activator (20) with blades, coaxially mounted on the rotor (7). The rings (14, 15) of the stators (12, 13) are placed into the rings (8, 9) of the rotors (6, 7), and their holes are made identical, rectangular, made at an angle with the radius along the generatrix.

Claims: 1

Fig.: 2

