

An object of the invention is a method for controlling an ultrasonic sprayer of fuel for internal-combustion engine. The invention relates to ultrasonic devices for spraying of liquids and may be used for controlling fuel spraying in internal-combustion engines. The main thing of the method for controlling the ultrasonic sprayer of fuel in internal-combustion engine consists of generating intermittent mechanical oscillations in a hollow cylindrical vibrator with the use of a chopper under action of electric voltage, at that the time of electric voltage action is changed proportionally with consumption of the sprayed fuel and intervals between the period of applying the electric voltage are chosen to be no more than a time needed for fuel to flow over the distance equal to a height of the hollow cylindrical vibrator. A value that is inverse to the active component of a current passing through the chopper may be used as a signal of the consumption of sprayed fuel. Application of the invention in the internal-combustion engines will allow effective spraying and homogenizing air-fuel mixture with low consumption of energy that will result in improved economic, environmental and power characteristics of engines.