

Ultrasonic system for producing functional beverages comprises a working chamber, acoustic vibration sources, and a control unit. Piezoelectric transducers with different operating frequencies are used as the acoustic vibration sources. The system comprises two medium-frequency acoustic vibration sources located beneath the surface of the working chamber, with a ratio of their operating frequencies of 1.4, and two high-frequency acoustic vibration sources located at the center of the side surfaces of the working chamber, facing each other, whose operating frequency is 1-2 orders of magnitude greater.