Abstract

Ultrasonic Cleaning Method and Ultrasonic Cleaning Apparatus

Subject: There is provided an ultrasonic cleaning method and an ultrasonic cleaning apparatus by which a high particle removal rate is obtained in a stable manner.

Means for solving the problem: An ultrasonic cleaning method for cleaning an object to be cleaned in a liquid in which a gas is dissolved, by irradiating the liquid with ultrasonic waves, the method comprising the following steps: The liquid in which the gas is dissolved is prepared (S10). The object to be cleaned is cleaned while ultrasonic waves are applied to the liquid so that the ratio determined by dividing a vibration strength of the liquid at a fourth-order frequency of the ultrasonic waves by a vibration strength of the liquid at a fundamental frequency of the ultrasonic waves is larger than 0.8/1000 (S40).

Selected Drawing: Fig. 6