Abstract

The apparatus for high-intensity focused ultrasound therapy of the present invention usually comprises a ultrasound transducer, an image acquisition device, a driving unit for driving said ultrasound transducer and mechanical drive means for mechanically driving said ultrasound transducer and image acquisition device together. Additionally, this apparatus for high-intensity focused ultrasound therapy further comprises a signal processing unit connected to image acquisition device for receiving and saving the original images of the target area prior to treatment and for receiving and saving the images of the target area in a certain time during high-intensity focused ultrasound (HIFU) treatment and for evaluating the therapeutic effects according to the images of the target area before and after treatment, and a control unit respectively connected to signal processing unit, driving unit and mechanical driving means. When the signal processing unit judges that the therapeutic requirements have been met, the control unit controls the driving unit and mechanical driving means to stop the working of ultrasound transducer and when the signal processing unit judges that the therapeutic requirements have not been met, the control unit controls the driving unit and mechanical driving means to make the ultrasound transducer continue to work.

162162

G00002