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(54) **ULTRASONIC SYSTEM OF CONTACT TYPE FLEXIBLE CONFORMAL ULTRASONIC PROBE AND METHOD FOR THE SAME**

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See application file for complete search history.

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(57) **ABSTRACT**

The invention relates to the field of ultrasonic imaging detection, and more particularly, to an ultrasonic system of a contact type flexible conformal ultrasonic probe and a method for the same. The ultrasonic system comprises: a flexible probe, comprising a flexible detection surface, a plurality of probe units, and a soft film sensing surface; a switch module; a control module, comprising: a transmitting control unit for sequentially controlling the probe units in the probe array to transmit the ultrasonic signal; a receiving control unit for sequentially controlling the probe units in the probe array to receive the ultrasonic signal, and for processing the ultrasonic signal to obtain an ultrasonic image. The present invention has the following beneficial effects: the use of a flexible probe for acquiring an ultrasonic image allows to solve the problem that the operation process and imaging steps are complicated when using a rigid probe.

**9 Claims, 4 Drawing Sheets**

