Sensor holder for surface inspection

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Technology description

Ultrasound is used as a method of examining the interior of the material. Ultrasound has a constant propagation velocity in the medium and is used as the basis for determining internal defects by analyzing reflected signals. Ultrasonic testing requires an ultrasonic probe, which is the device that produces ultrasonic waves. The invention is a device for discovering defects occurring in a curved surface of a material without directly contacting a commercially available probe with a test piece. Because of the difficulty and difficulty of using ultrasonic instead of bending surface inspection, experiments can be carried out in the field without removing gas pipes, playing equipment and forming objects, which is easy and simple. Due to the use of ultrasound, a large number of samples can be detected over time.
Direct contact with the probe and sample can lead to scratches or damage to the surface of the probe. However, the probe can prolong the life of the probe by allowing contact with the sample inside the sphere, thus avoiding the risk of scratching or damage to the probe. The design of the invention enables not only the internal ball to be separated, but also the ball of the invention to be separated. In addition, a liquid coupling agent applied to the surface of the specimen during conventional ultrasonic examination is designed to be located in the interior of the invention for rapid experiments such that the coupling agent inside the ball flows out continuously during rotation.

Application area

Surface inspection

Institution

Sungkyunkwan University

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