

## Shielded Ultrasound Probe

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### Technology description

### Summary

The invention relates to the recently developed imaging method called Hall Effect Imaging (HEI). HEI involves the use of a magnetic field and electrical or ultrasound pulses applied to an object to generate an image of the object. HEI has the potential to become a novel medical imaging technique, revealing features not seen in existing imaging methods. Performing HEI with conventional ultrasound transducers is difficult due to electrical interference, though. The present invention is a design for an ultrasonic transducer which overcomes these difficulties. This design may be made as a modification of a commercial ultrasound probe, thereby lowering the cost of development and production.

### Institution

[NIH - National Institutes of Health](#)

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