

## Reflective Echo Tomographic Imaging Using Phased Arrays

### **Disclosure Number**

201202857

### **Technology Summary**

The invention relates to inspection apparatuses and methods of inspection. A new configuration of acoustic transducers and associated electronics coupled with image reconstruction software permits the tomographic reconstruction of cement features that lie outside the steel well casing. Such features include visualization of the rock surface, regions of debonding, and voids and cracks in the cement.

### **Inventor**

KISNER, ROGER A

Measurement Science & Systems Engr Div

### **Licensing Contact**

SPEIGHT II, MELVIN D

UT-Battelle, LLC

Oak Ridge National Laboratory

Room 143, 4500N, MS: 6196

1 Bethel Valley Road

Oak Ridge, TN 37831

Office Phone: (865) 241-6564

E-mail: [DSPEIGHT@ORNL.GOV](mailto:DSPEIGHT@ORNL.GOV)

Note: The technology described above is an early stage opportunity. Licensing rights to this intellectual property may be limited or unavailable. Patent applications directed towards this invention may not have been filed with any patent office.