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Dr. Suresh Periyannan

# Ultrasonic waveguide technique for distribute sensing and measurements of physical and chemical properties of surrounding media

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| Description | This invention relates to a waveguide with distributed sensors that support traveling ultrasonic wave modes to provide quantitative local distributed sensing of the physical and chemical properties of the medium surrounding the sensor locations and/or the material properties of the waveguide. The plurality of sensors is operably associated with a plurality of wave modes for probing and identifying a plurality of properties simultaneously. The reflected waves are representative of local information about the surrounding media at that sensor location. |
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