Abstracts

Biological Agent Detector Using a Surface Transverse Wave Resonator: Preliminary Report

R. McGowan, J. Foerster, R. Lindenmuth, D. Huynh and T. Lukaszek. "Biological Agent Detector Using a Surface Transverse Wave Resonator: Preliminary Report." 1994 MTT-S International Microwave Symposium Digest 94.1 (1994 Vol. I [MWSYM]): 513-516.

A 500 MHz, dual-channel, surface transverse wave resonator is employed as the sensor element in a chemical / biological detector capable of operating in an aqueous environment. The purpose of this preliminary report is two-fold. First, the design of the surface transverse wave sensor and its incorporation into a man-portable detector will be discussed. Second, the major problems uncovered with the initial prototype will be reviewed with an emphasis on solutions that will be implemented in a second "smart" detector.

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