

SP-2 Product Description

The SP-2 is a hard and soft tag detection system that will detect the presence of resonant RF tags within a protected area. The system consists of an antenna panel with associated internal circuitry and a small power supply. Resonant tags (hard or soft) are applied to the items to be protected. If a tagged item is brought within the protected area, an audible and visual alarm will sound, alerting store personnel of a possible theft. Since the detection field extends from both sides of the antenna, care must be exercised in displaying tagged items near the protected zone.

December 17, 1998 Federal Communications

Commission
Washington, DC 20554-1300

Gentlemen:

Persuant to 5 U.S.C. 552 (b)(4), and in compliance with 47CFR Part 0, 0.459 regarding material available for public inspection, I request that the following materials relating to FCC grant H47-5P2 be held confidential and privileged. Specifically, all schematics, block diagrams, and technical descriptions pertaining to H47-5P2.

This material contains confidential trade secrets and privileged information that could prove harmful to Ketec Inc. if divulged. This material represents a unique approach to Anti-Shoplifting equipment developed by Ketec Inc. to remain in the highly competitive Electronic Article Surveillance marketplace. Disclosure would enable our competitors to benefit directly from our design and development efforts, and would negate the competitive advantage that our product will enjoy by utilizing the techniques contained therein, seriously affecting our ability to do business in this global market.

The confidential information contained herein is not available to the public. Internal access is strictly on a need-to-know basis. Access is not available through the company's internal computer network. All information pertaining to grant number H47-5P2 is stored within a secure area, only accessible to authorized personnel.

As this industry contains a relatively small number of companies, proprietary improvements and implementations rather than technology changes are the standard. These improvements and implementations would not be readily discovered by reverse engineering, and may give our company a competitive advantage that would be compromised by disclosure. Requests for this material should be denied for a period of not less than 15 years on this basis.

Sincerely,

A handwritten signature in dark ink, appearing to read "Richard J. Frohbergh". The signature is fluid and cursive, with the first name "Richard" and last name "Frohbergh" clearly distinguishable.

Richard J. Frohbergh
Ketec Inc.

TECHNICAL DESCRIPTION OF THE SP-2 SYSTEM

The SP-2 is a transmitter/receiver/loop antenna combination. The transmitter/receiver is alternately gated on and off. A microprocessor supplies all gating and control signals to insure that the transmitter and receiver are enabled at the proper times. A common loop antenna is shared between the transmitter and the receiver.

A narrow enabling pulse generated by the microprocessor is supplied to the transmitter at a rate of 120 Hz. This pulse turns on the transmitter for the pulse duration only. The RF output remains at zero for the remainder of the period. After the transmitter pulse there is a defined waiting period when neither the transmitter nor the receiver is enabled. Following the waiting period, the A/D converter is enabled to initiate the receive function. Data transfer and processing occurs only after the transmitter pulse and the waiting period has expired.

Data received by the microprocessor during the receive enabling pulse is analyzed, and if the proper conditions are met, an output to the alarm circuitry is generated.

A system block diagram (Ketec Dwg. 5P820 19) showing all oscillator frequencies and functions is attached.

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Of Ketec, Inc.**