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TECHNICAL NEWS BULLETIN

AN INGENIOUS SOUND INSTALLATION



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An unusual sound installation was made not too long ago in an outdoor storage yard. Its purpose was to warn the night watchman of prowlers that find their way into the locked premises.

The method employed was truly ingenious. To detect the intrusion of the prowlers a set of trumpet speakers placed strategically in the yard was connected through a Raymer RSP-1 relay to the input of a Raymer 790-6 amplifier. (A Raymer LMT-150 microphone transformer was used for impedance matching.) This amplifier powered a monitor speaker operating in the night watchman's office area. Also operating in the same office area was a Raymer 202 microphone driving a Raymer 801-35 amplifier, which was connected to the outside speaker cluster through the RSP-1 relay.

The speaker cluster is wired for normal operation as a microphone into the 790-6 amplifier so that when prowlers enter the premises, the resulting noise is picked up by the speakers in the cluster and communicated to the monitor speaker in the night watchman's office. The night watchman reacts instantly by talking into the press-to-talk microphone (Raymer #202), which through the action of the RSP-1 relay takes the pair of wires to the speaker cluster off the 790-6 amplifier and places it on the output of the 801-35 amplifier. This fills the yard with sound and scares off the prowlers before thievery takes place.

This situation indicates another interesting area where Raymer sound equipment is used as a security device. Used as described above it will be extremely effective as well as correspondingly inexpensive. Please refer to the block diagram below for layout details, and remember to isolate all input and output circuits from each other to prevent oscillation.

