

AN ANTENNA

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ABSTRACT

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There is disclosed an antenna (1) having a tapered radiating element (2) possessing a slow-wave structure (7a, 7b) along a tapered radiating edge (6) thereof. The radiating element is combined with a ground plane conductor (3) to form a monopole antenna. The slow-wave structure supports an increased antenna operating bandwidth and reduced aperture clutter by being shaped to increase the radiative rate of loss of energy from signals propagating along the slow-wave structure. A log-periodic distribution in the shaping of serrations (7b) within the slow-wave structure provides substantially frequency-independent performance across the bandwidth.

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Figure 1