

Abstracts

Cooperative Signal Processing Beacon Transponder for Airport Traffic Control

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In recent years there has been an interest in physically small, low-cost, low-energy consuming electronic markers for air traffic control on the ground. In this paper a solid state 14.5 GHz low-cost beacon transponder is investigated that provides a target-like signal for a maximum range of 5 miles in various weather conditions when illuminated by an existing 14.5 GHz surface detection radar developed by Texas Instruments (TI), Dallas, Texas.

[Return to main document.](#)