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**Ben-Haim et al.**

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(54) **WIRELESS NETWORK LOCATION TECHNIQUES**

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This patent is subject to a terminal disclaimer.

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(57) **ABSTRACT**

Improved wireless network location techniques are described. In one embodiment, for example, an apparatus may comprise circuitry and a communications management module for execution on the circuitry to send a timing announcement element comprising a sounding preamble count parameter indicating a number of sounding preambles, send a null data element comprising a number of sounding preambles equal to the sounding preamble count parameter, receive timing reply information comprising the number of sounding preambles equal to the sounding preamble count parameter, and determine a time of flight based on the timing reply information. Other embodiments are described and claimed.

**23 Claims, 12 Drawing Sheets**

