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(54) **MULTI-PLATFORM GEOLOCATION METHOD AND SYSTEM**

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(58) **Field of Search** 342/450, 457, 342/462, 465

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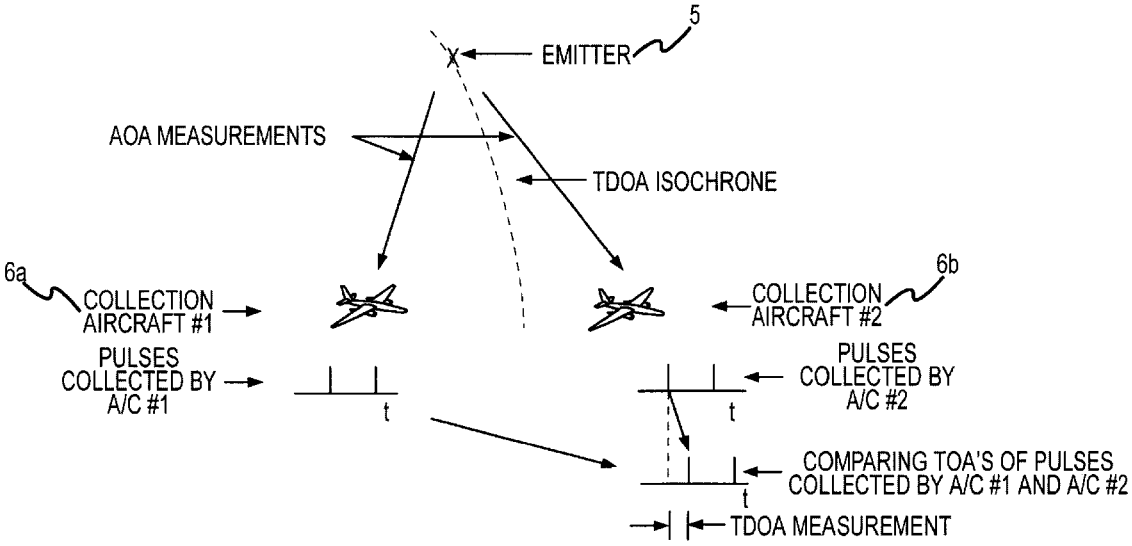
(57) **ABSTRACT**

A method for determining the geolocation of an emitter using sensors located at a single or multiple platforms is disclosed. Generally, the method includes the steps of receiving a first measurement set relative to a first emitter, the first measurement set including angle of arrival, time difference of arrival and/or terrain height/altitude measurements, receiving a first location guess or estimate for the first emitter, and determining at least a second location estimate using at least one of a batch least squares analysis and a Kalman filter analysis.

20 Claims, 10 Drawing Sheets