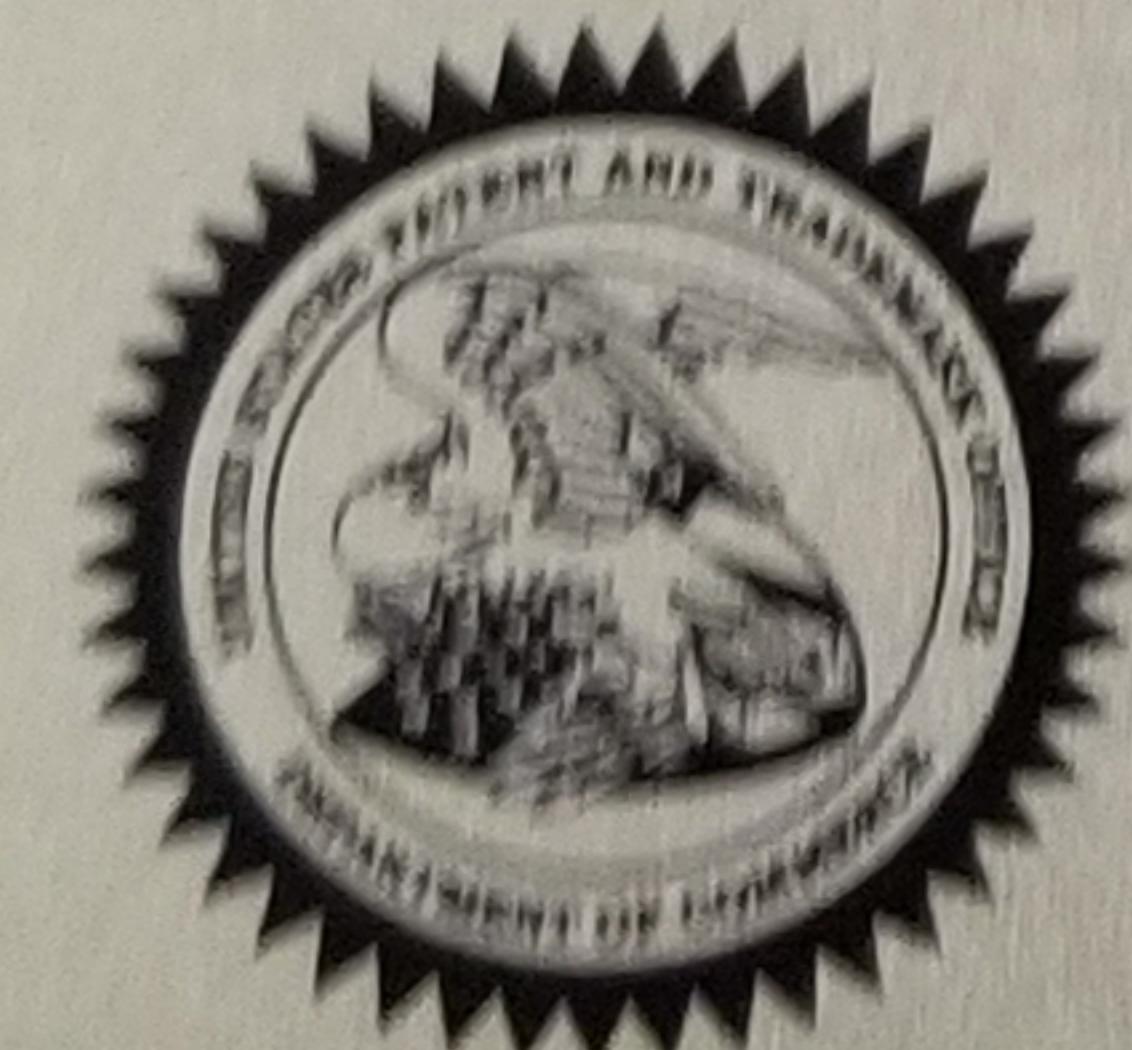


The  
United  
States  
of  
America



# UNITED STATES PATENT

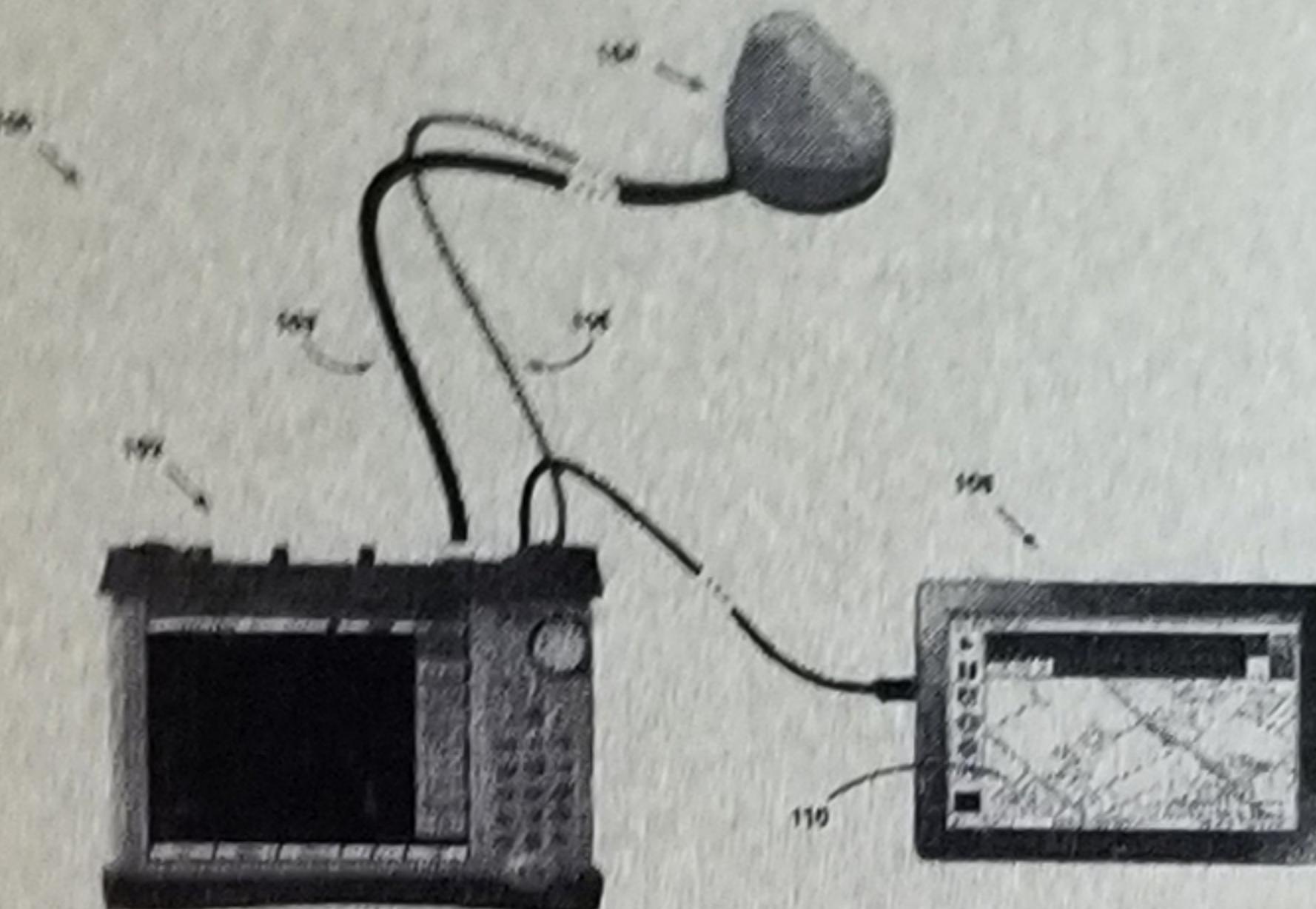
Granted on January 31, 2017

*Mark Heimbach*

INVENTOR

US 9,560,537 B1

SYSTEMS AND METHODS FOR DETERMINING  
A LOCATION OF A SIGNAL EMITTER BASED  
ON SIGNAL POWER



A method of estimating a location of an interference signal source includes using a first antenna configured to receive a signal from the interference signal source and using a second antenna arranged proximate to the first antenna and configured to receive global positioning system (GPS) signals. An initial trend in variation in power of a received signal from the interference signal source is determined relative to a position of the second antenna, wherein upon determining the initial trend, the initial trend is a current trend. In an iterative manner, the second antenna is directed to be repositioned and a current trend in the peak measurement in power is observed until an estimate of the location of the interference signal source is determined.

*The Director of Patents and Trademarks has received an application for a patent for a new and useful invention. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law. Therefore, this*

# UNITED STATES PATENT

*Grants to the person or persons having title to this patent the right to exclude others from making, using or selling the invention throughout the United States of America for the term of the patent, subject to the payment of maintenance fees as provided by law.*

*Michelle K. Lee*

Director of the United States Patent and Trademark Office