



US005905461A

United States Patent [19] Neher

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[54] **GLOBAL POSITIONING SATELLITE TRACKING DEVICE**

[76] Inventor: **Timothy J Neher**, 411 Hobron La., no. 3204, Honolulu, Hi. 96815

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[51] **Int. Cl.⁶** **H04B 7/185; G01S 5/02**

[52] **U.S. Cl.** **342/357; 701/213**

[58] **Field of Search** **315/357; 701/213**

[56] **References Cited**

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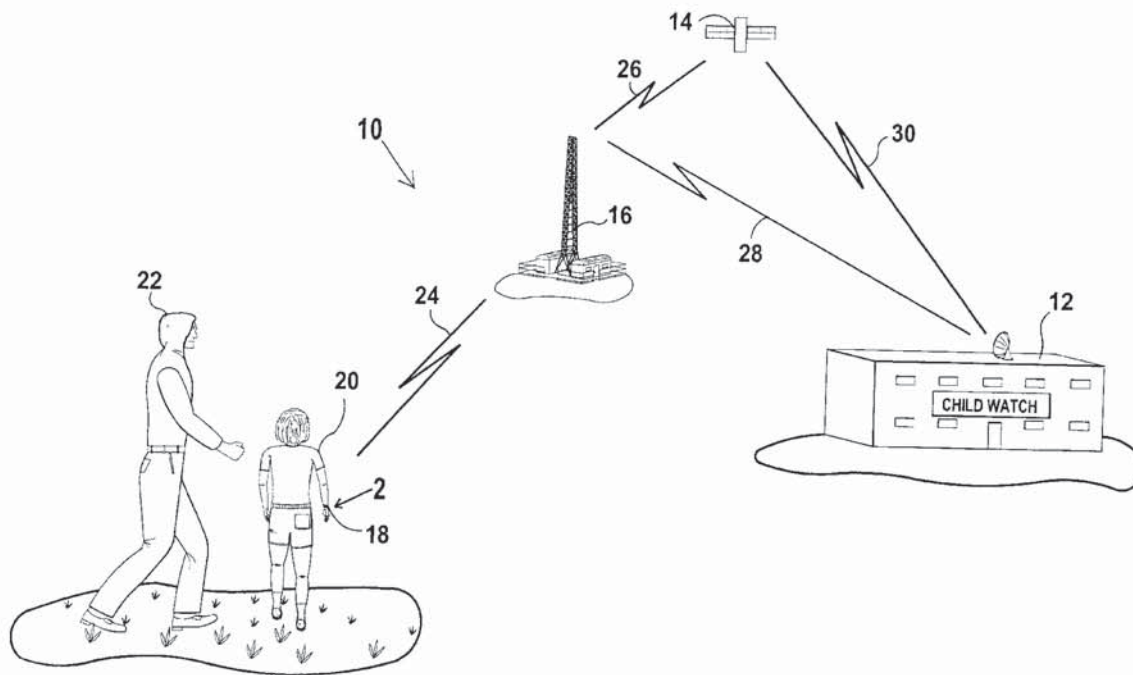
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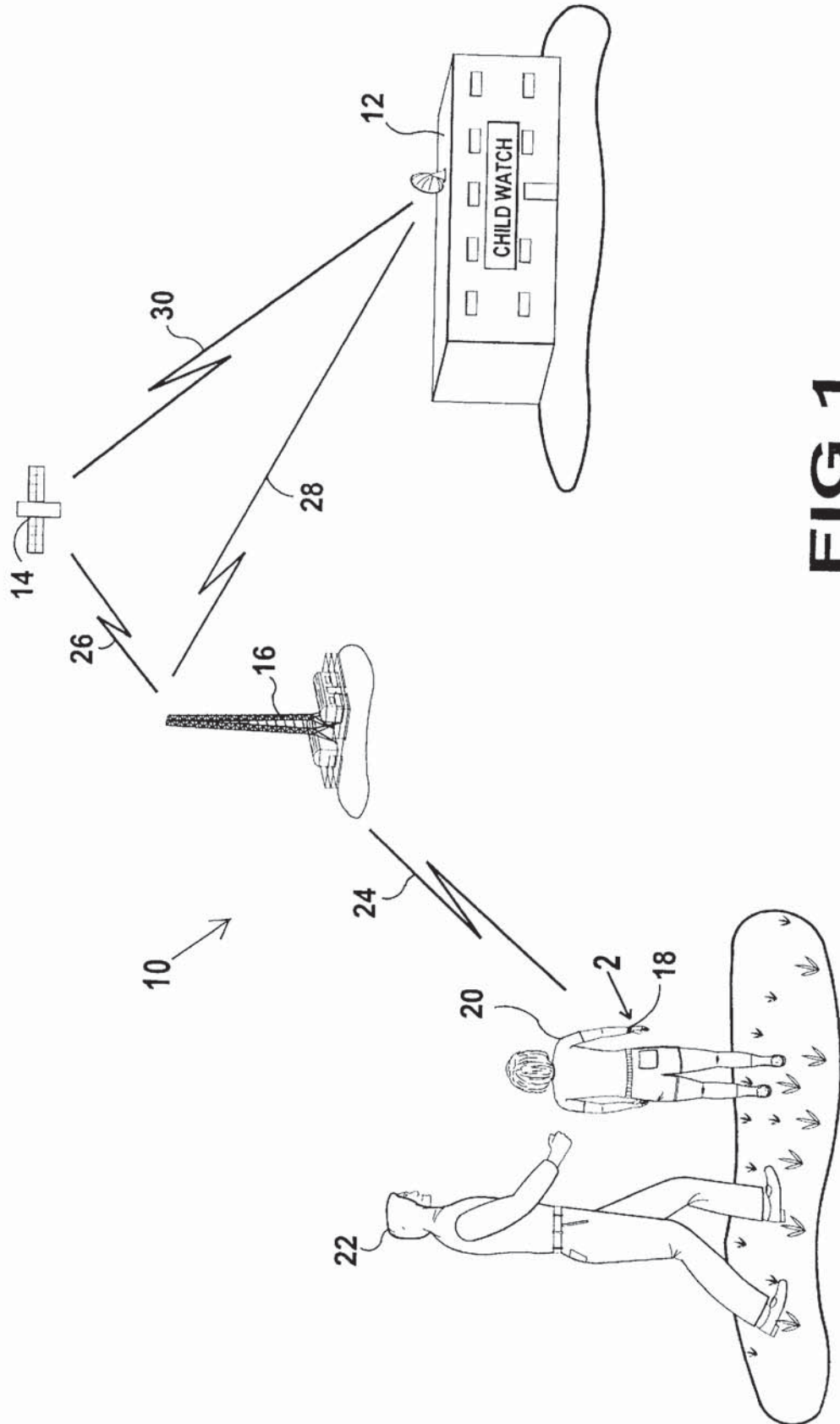
Primary Examiner—Theodore M. Blum
Attorney, Agent, or Firm—Michael I. Kroll

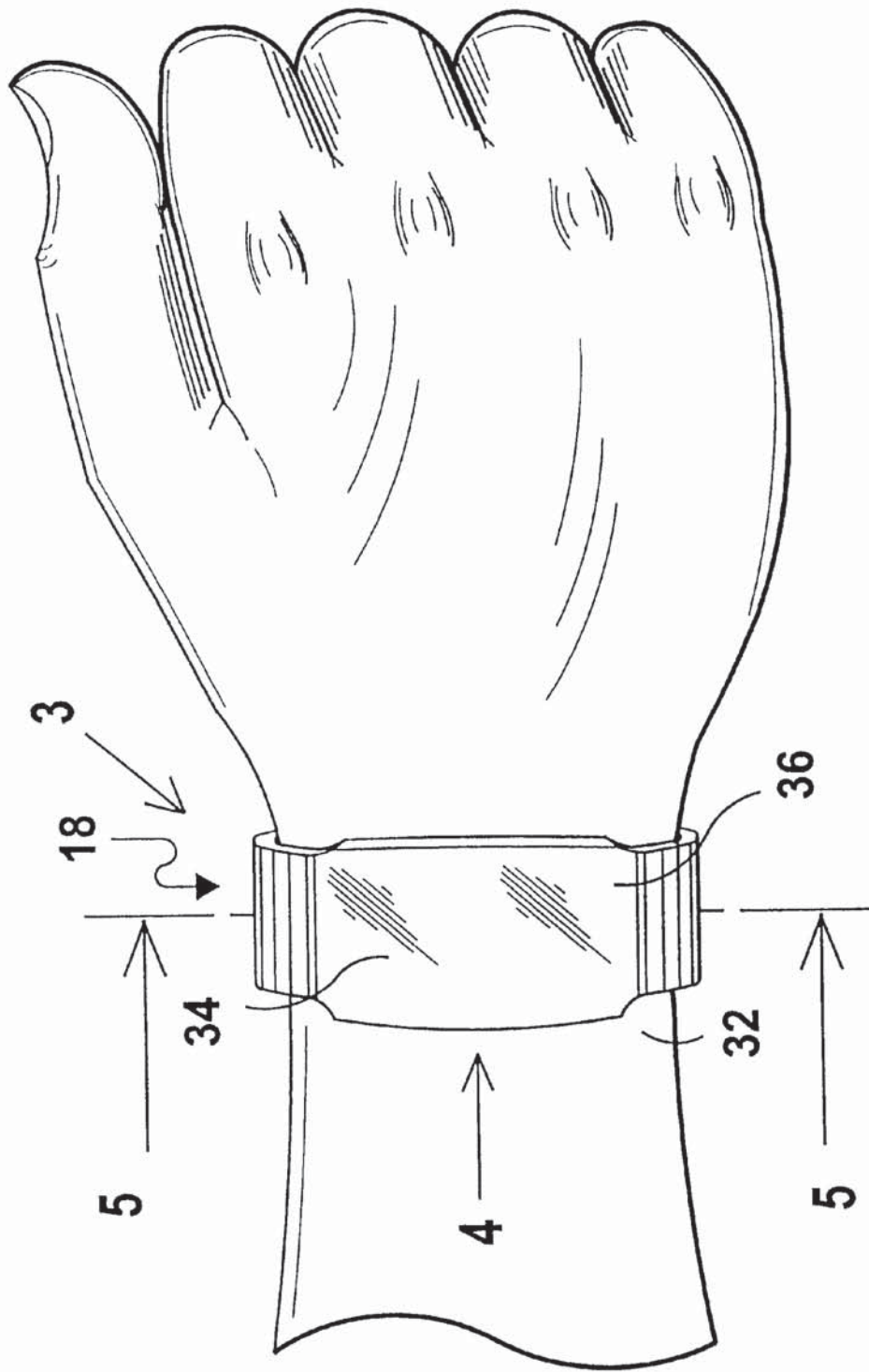
[57] **ABSTRACT**

A global positioning and tracking system for locating one of a person and item of property. The global positioning and tracking system comprises at least one tracking device for connection to the one of the person and item of property including a processing device for determining a location of the tracking device and generating a position signal and a transmitter for transmitting said position signal. The position signal is transmitted to a relay station strategically positioned about a desired monitoring area. The relay station includes a device for receiving the positional signal and determining if the received position signal is a valid signal and a device for relaying the position signal upon determining the position signal is valid to a central monitoring station. The central monitoring station receives the validated positional signal from the relay station and analyzes the position signal for monitoring the position of the tracking device. The system may also include a tracking satellite for receiving the validated position signal from the relay station and re-transmitting the position signal to the central monitoring station when the central monitoring station is located outside the transmission range of the relay station.

13 Claims, 8 Drawing Sheets







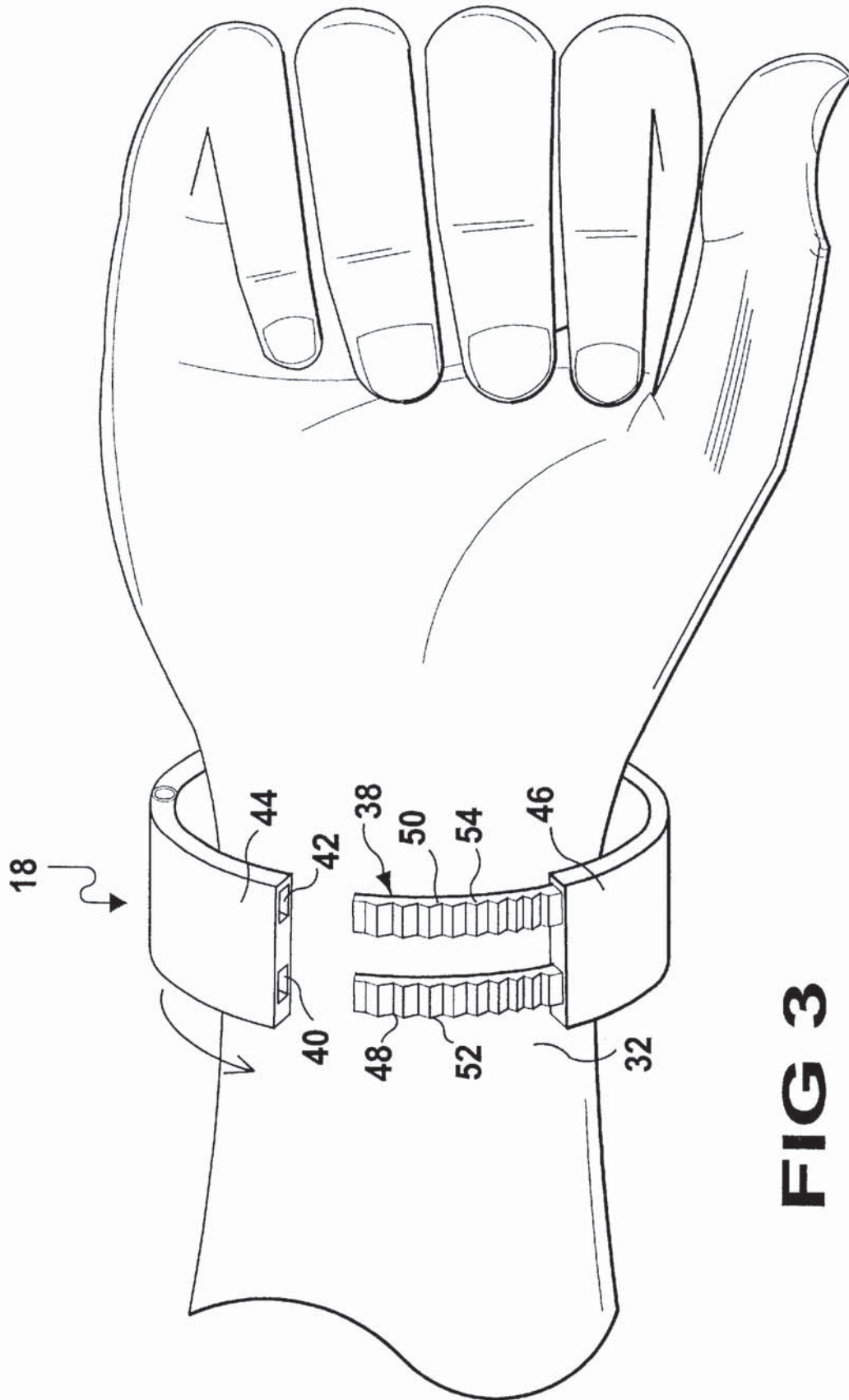


FIG 3

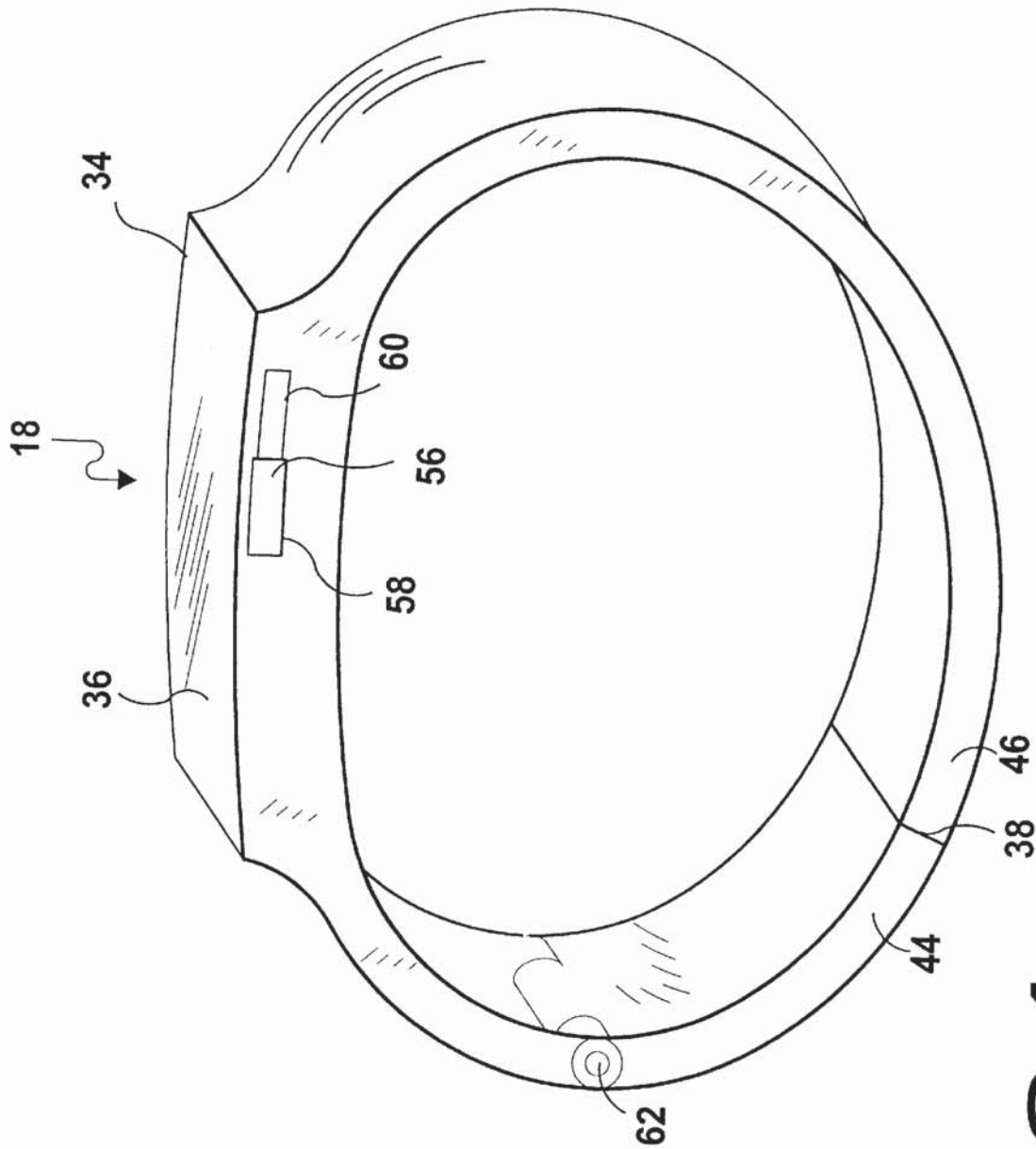


FIG 4

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