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**United States Patent** [19]  
**Stewart**

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[54] **TELEPHONE SYSTEM AND METHOD WITH  
BACKGROUND LOCATION RESPONSE  
CAPABILITY**

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[51] **Int. Cl.**<sup>7</sup> ..... **H04Q 7/06**

[52] **U.S. Cl.** ..... **455/456; 455/457; 455/461**

[58] **Field of Search** ..... **455/456, 457,  
455/461**

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

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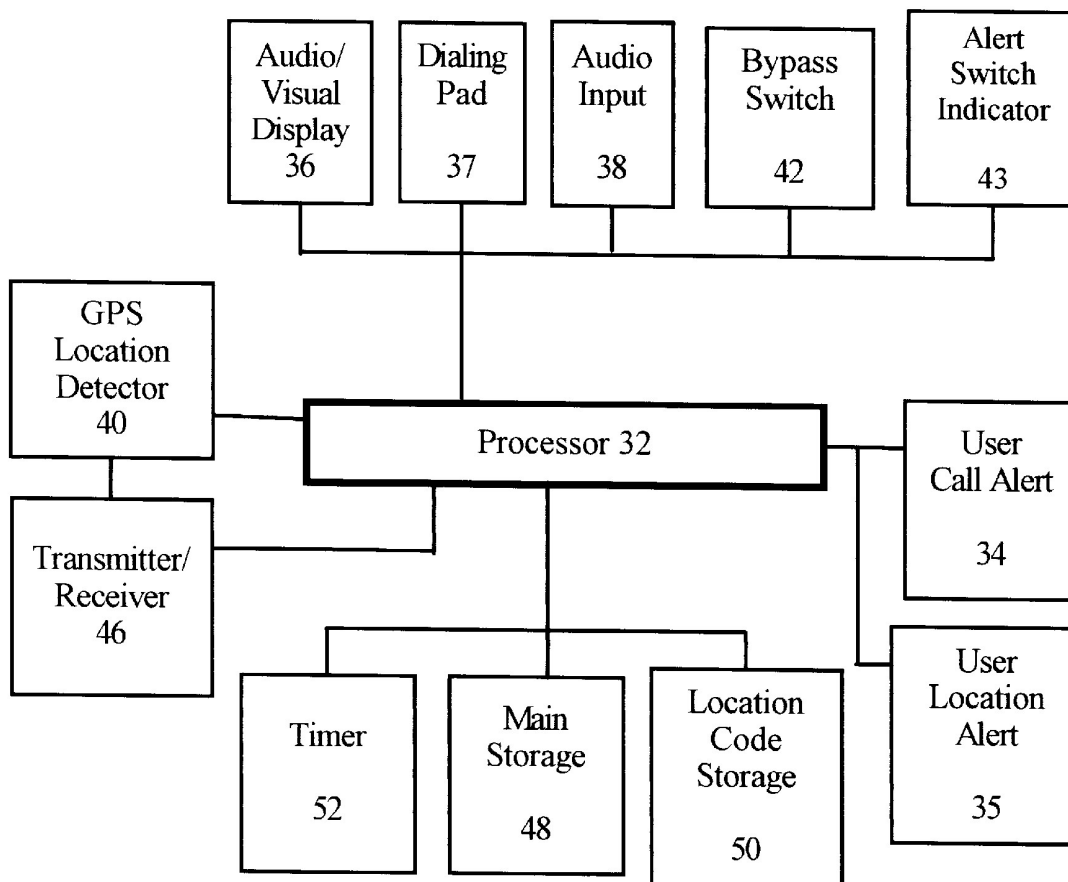
*Primary Examiner*—David R. Hudspeth

*Assistant Examiner*—Daniel Abebe

[57] **ABSTRACT**

A portable telephone capable of background location transmission response, and methods which can be executed by such a telephone or a system using such a telephone. In one such portable telephone, a position locator which, in response to a location request signal, can determine the location of the portable telephone and generate a corresponding location signal. A receiver receives an incoming call signal and an incoming location request signal. A user interface has: an audio or visual user output device which can reproduce audio or visual information in an incoming call signal as a corresponding audio or visual display; and an audio user input device which generates an audio output signal corresponding to a user's voice. An alert generator which, in response to a received incoming call signal, generates a first physical characteristic to indicate an incoming call to a user of the portable telephone. A location request detector which, in response to a received location request signal, can direct the location request signal to the position locator without activating the alert generator. A transmitter to transmit a location signal generated by the position locator in response to a received location request signal, and to transmit the audio output signal.

**10 Claims, 5 Drawing Sheets**



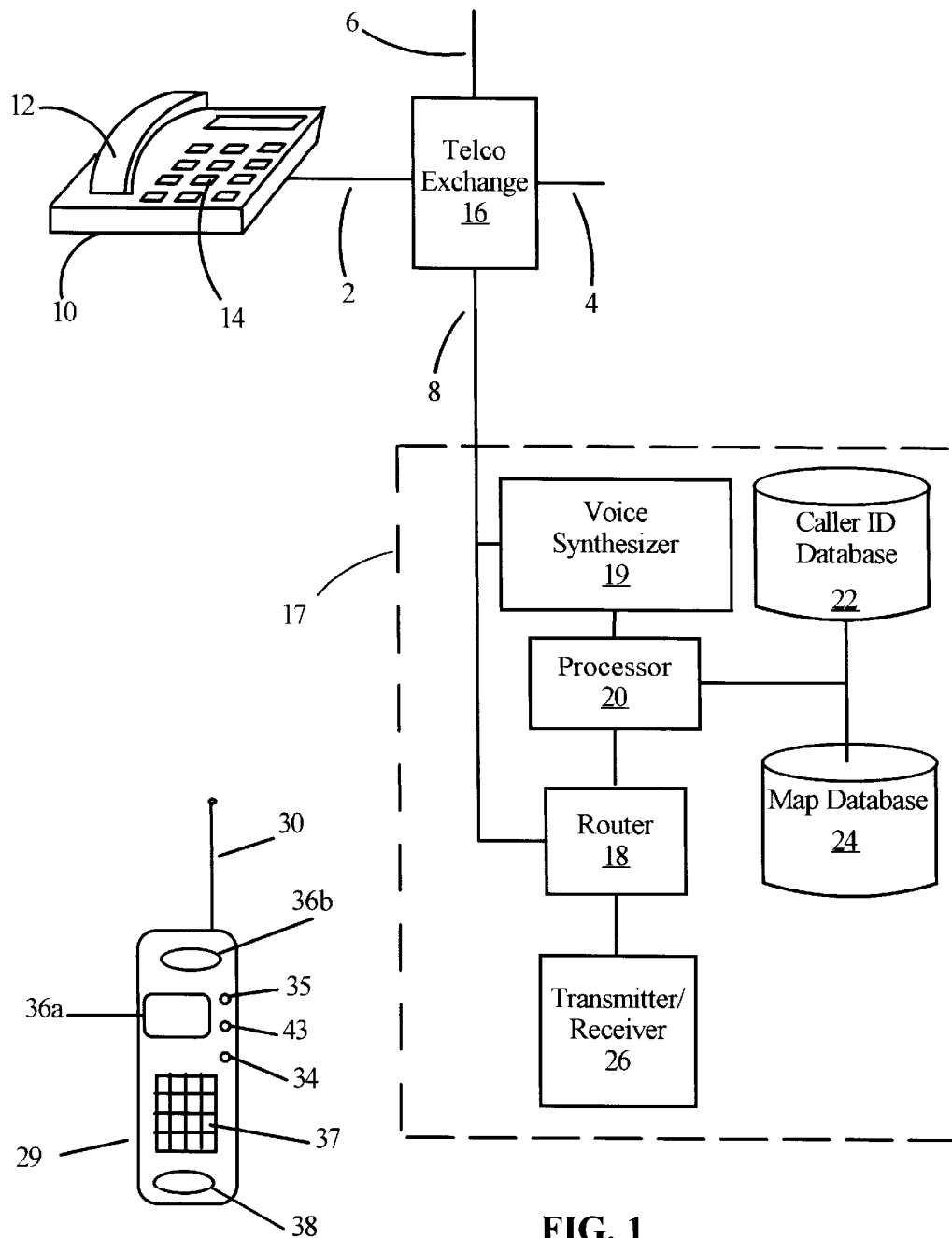
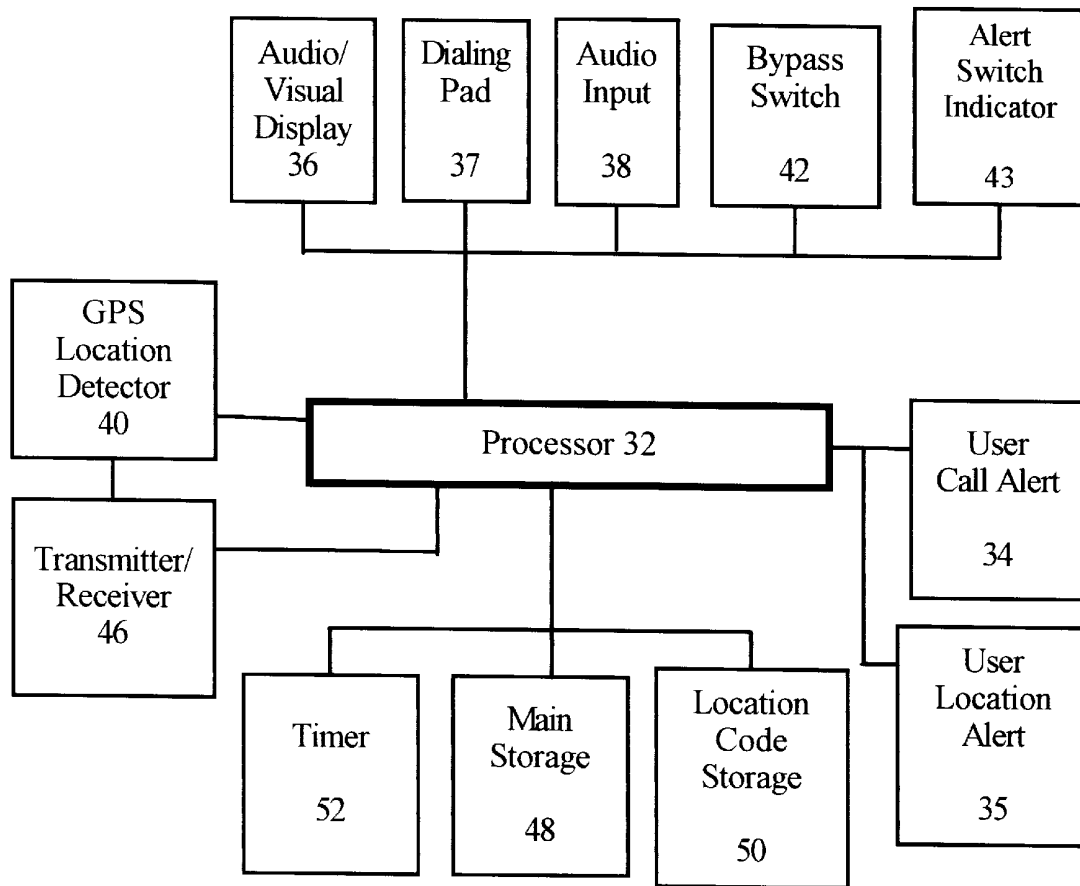


FIG. 1

**FIG. 2**

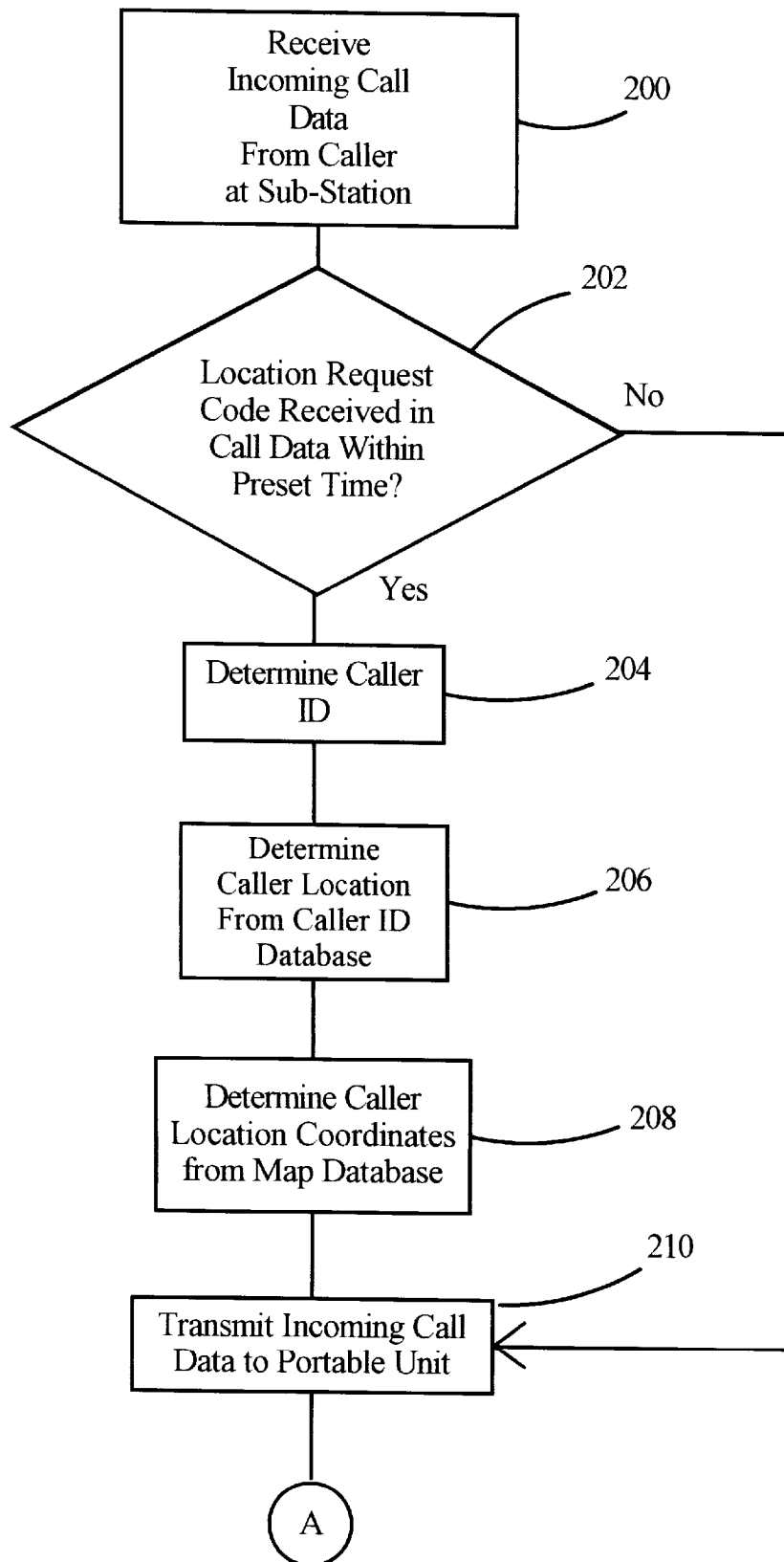
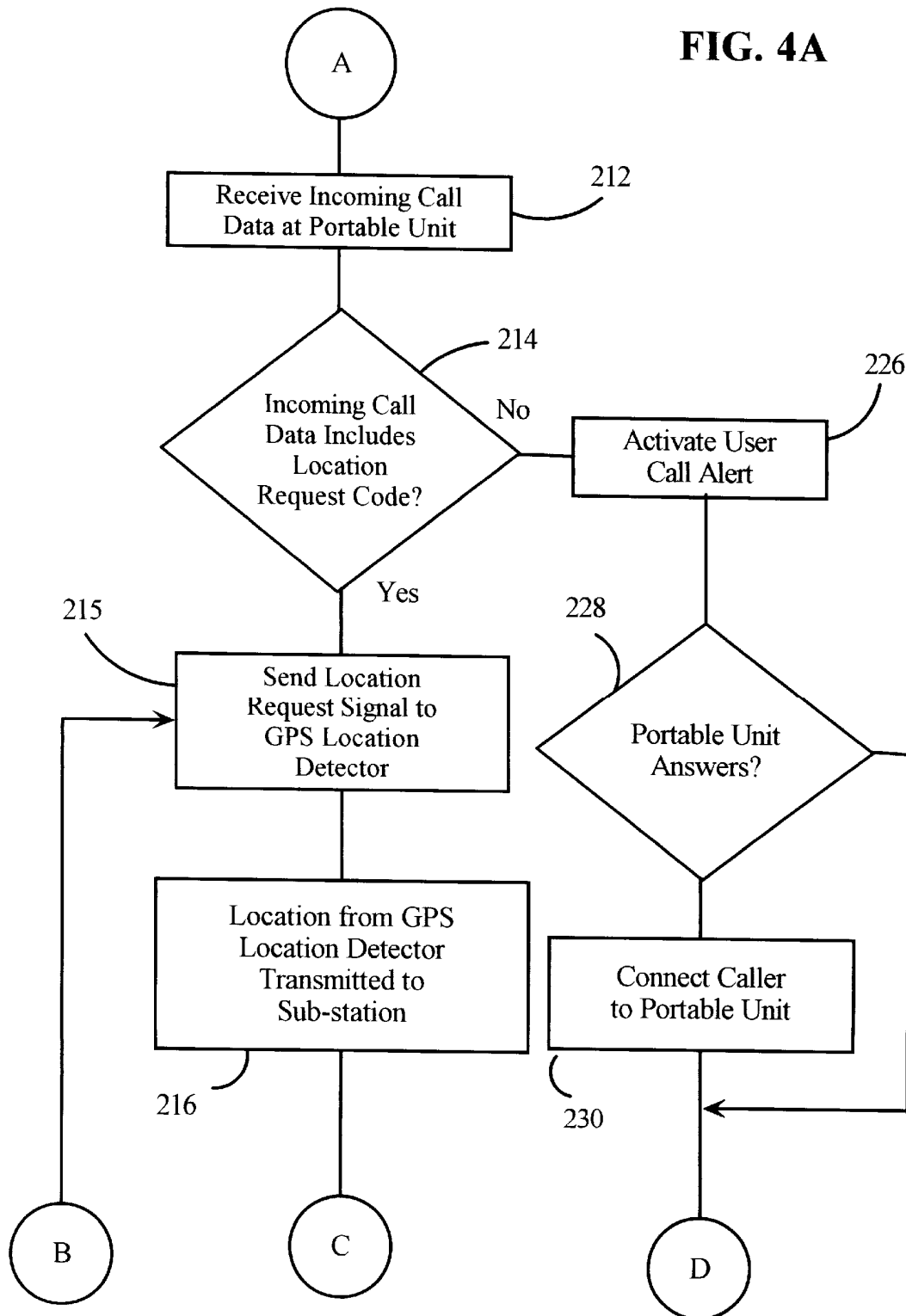


FIG. 3

FIG. 4A





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