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Shanahan

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(54) **METHODS AND APPARATUSES FOR PROGRAMMING USER-DEFINED INFORMATION INTO ELECTRONIC DEVICES**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(63) Continuation of application No. 10/600,975, filed on Jun. 20, 2003, now Pat. No. 7,149,509, which is a continuation of application No. 09/518,845, filed on Mar. 3, 2000, now abandoned.

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(57) **ABSTRACT**

(51) **Int. Cl.**
H04M 3/00 (2006.01)

A device for programming user-defined information into an electronic device is provided. The programmer allows a user to program customized information, such as user-selected audio, video, or Internet access information into his or her programmable device. Such electronic devices include wireless telephones, pagers, and personal digital assistants. The programmer allows a user to, among other things, customize the device to suit his or her particular taste.

(52) **U.S. Cl.** **455/418; 455/567; 455/557**

(58) **Field of Classification Search** 455/418, 455/419, 556.1

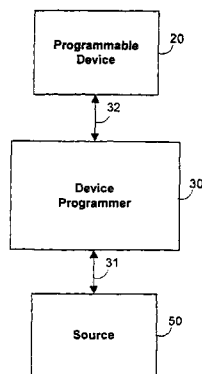
See application file for complete search history.

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67 Claims, 13 Drawing Sheets



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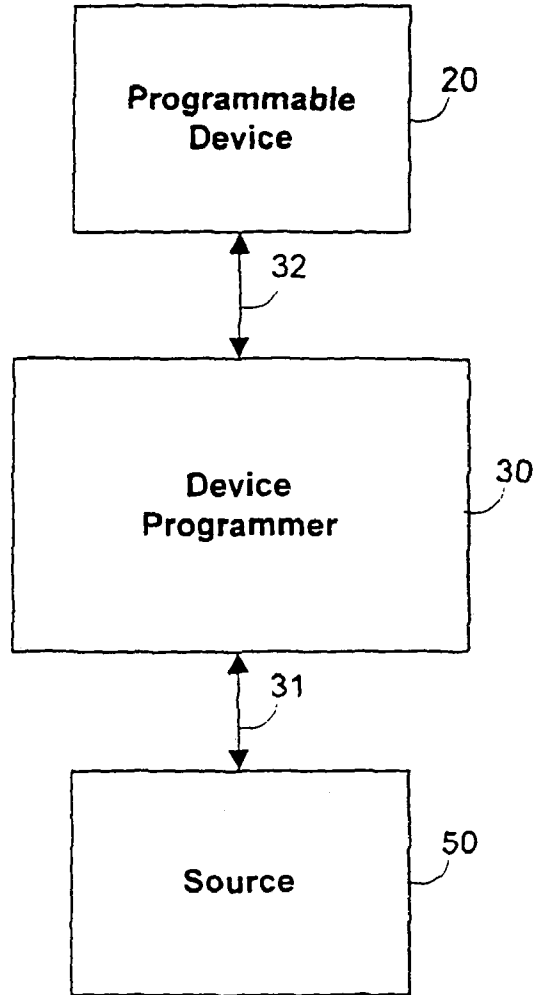


FIG. 1

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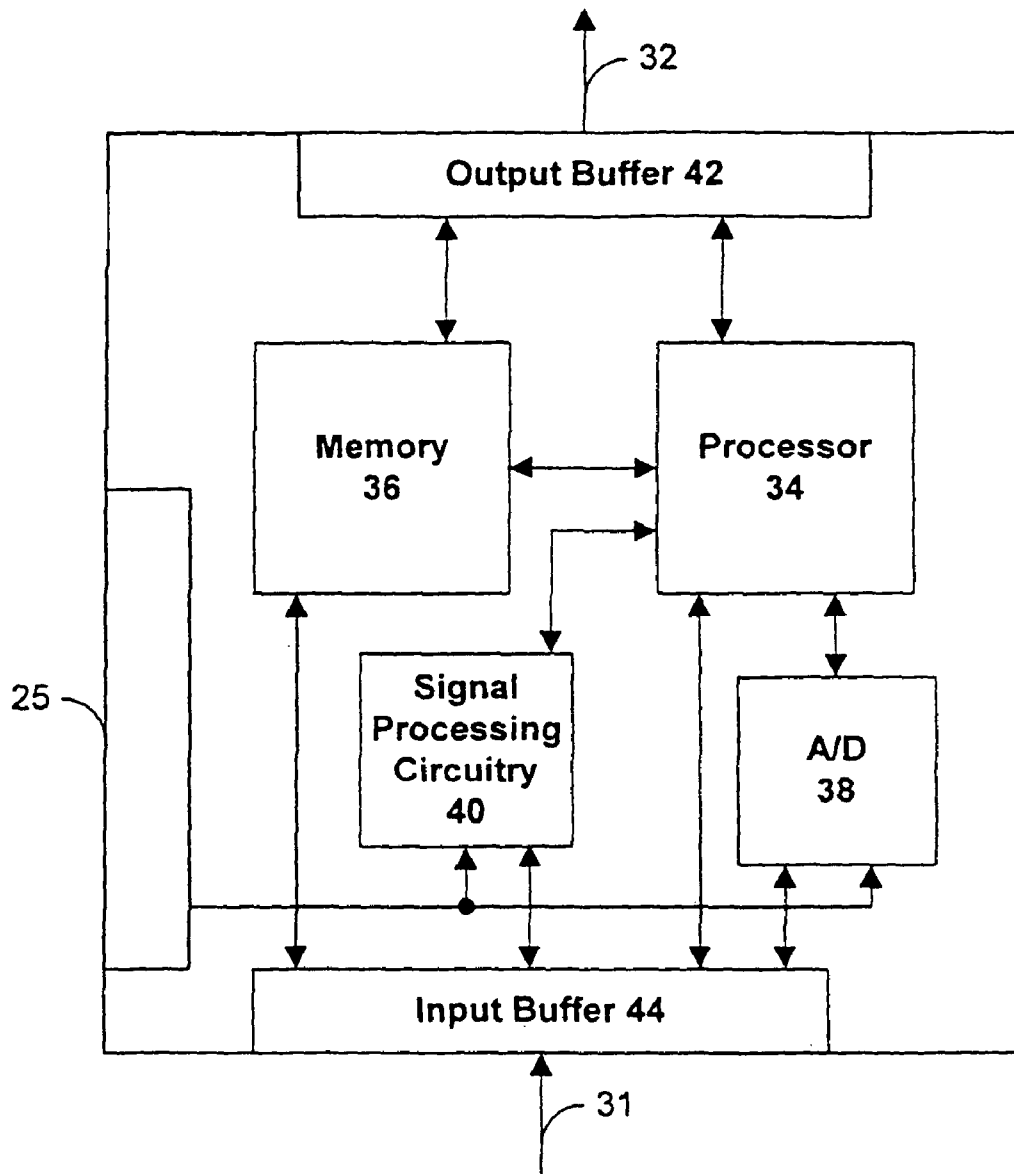


FIG. 2

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