United States Patent [19]

Halpern

[11] **Patent Number: 4,906,828**

[45] **Date of Patent: Mar. 6, 1990**

[54] **ELECTRONIC MONEY PURSE AND FUND TRANSFER SYSTEM**

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[73] Assignee: **Paperless Accounting, Inc.**, Washington, D.C.

[21] Appl. No.: **201,339**

[22] Filed: **May 31, 1988**

Related U.S. Application Data

[63] Continuation of Ser. No. 470,689, Feb. 28, 1983, abandoned.

[51] **Int. Cl.**[4] **G06F 15/30**

[52] **U.S. Cl.** **235/379**; 235/380; 235/492; 902/2; 380/24

[58] **Field of Search** 235/379, 380, 381, 438, 235/492; 902/2; 380/24

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Attorney, Agent, or Firm—Burns, Doane, Swecker & Mathis

[57] **ABSTRACT**

The essence of the invention is a socalled "data bit variable spacer generator", block **79**, which contributes to the generation of a control output "c" from a combinatory logic circuit group **78**. The logic level of "c" determines whether a clear data bit from the parity flip flop **FF6** is to be sent out or a random bit from block RMG. The 'variable data bit generator' is controlled by a number of parallel bit outputs from registers **SH1** and **SH2** which hold an encryption key after being conditioned by other logic inputs derived from key parity flip flops (**FF1** and **FF2**) and clear data bit levels from block **81**. Registers **SH1** and **SH2** shift and recirculate when the 'c' output is high. Similar principles are used when data are decrypted. The circuit is suitable for integration with other functions on a single substrate chip.

43 Claims, 10 Drawing Sheets

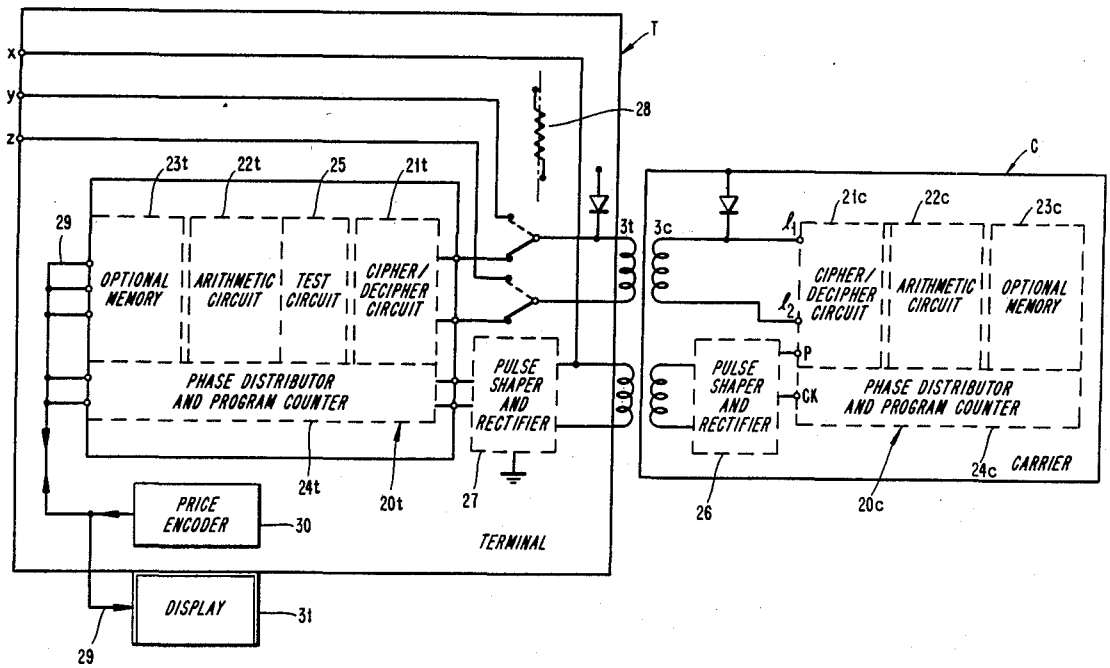


Fig. 1

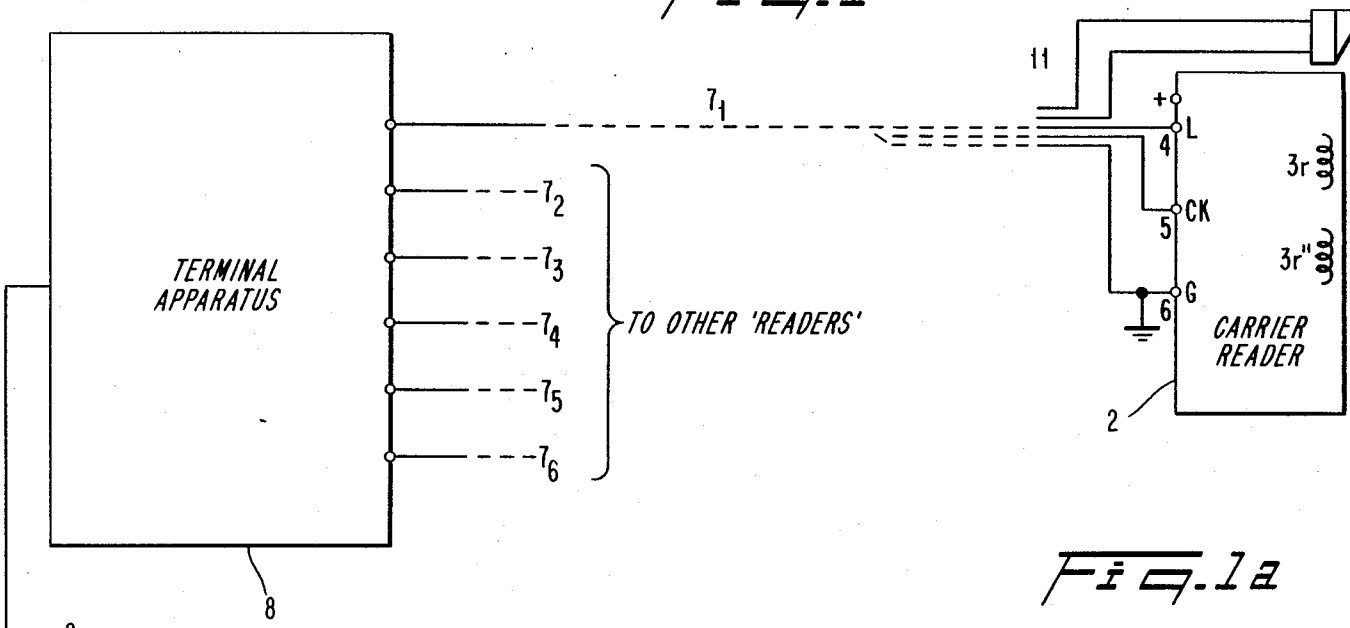


Fig. 1a

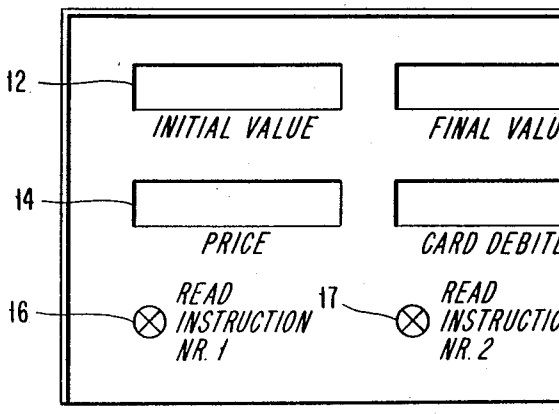


Fig. 2

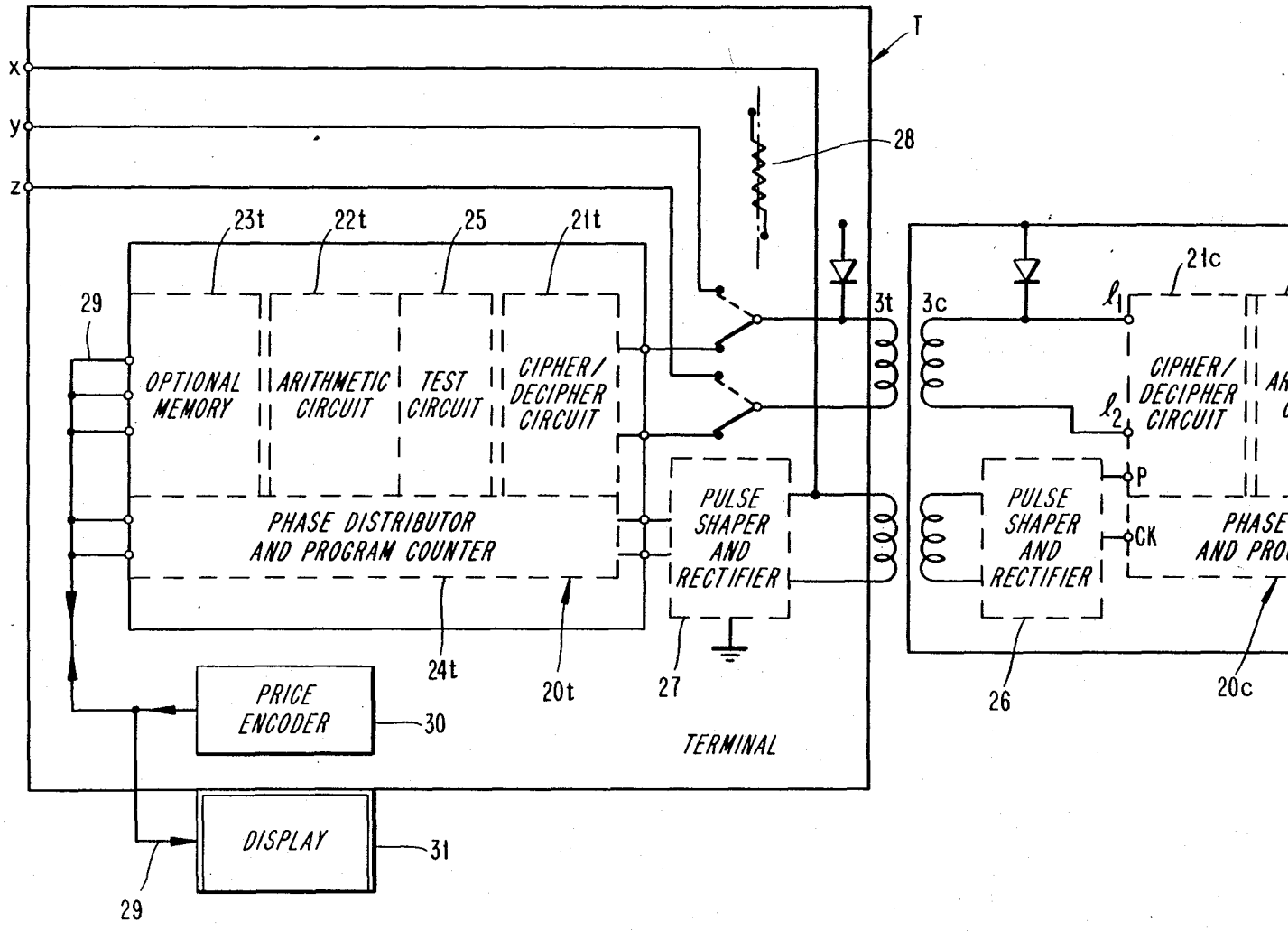


Fig. 3

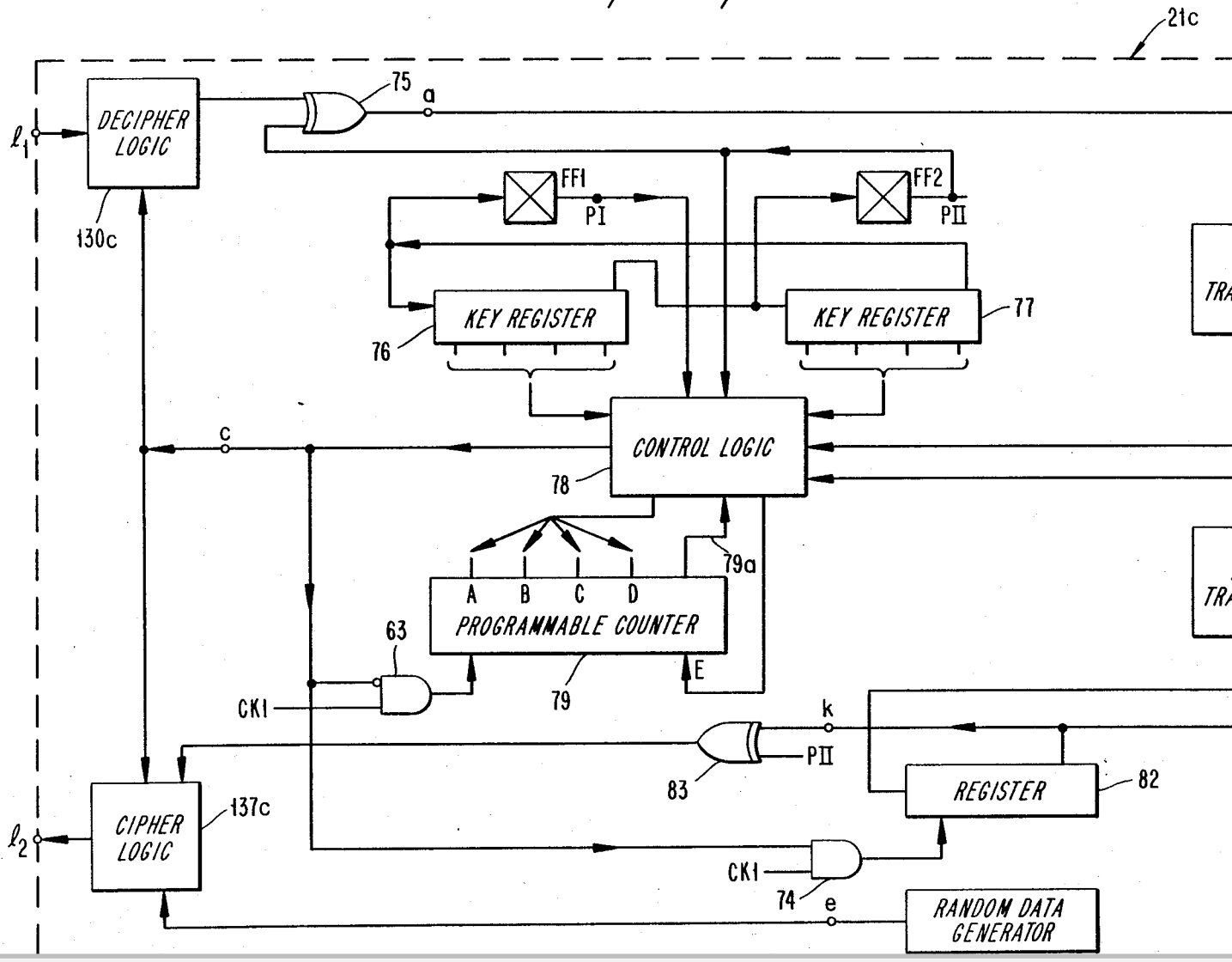
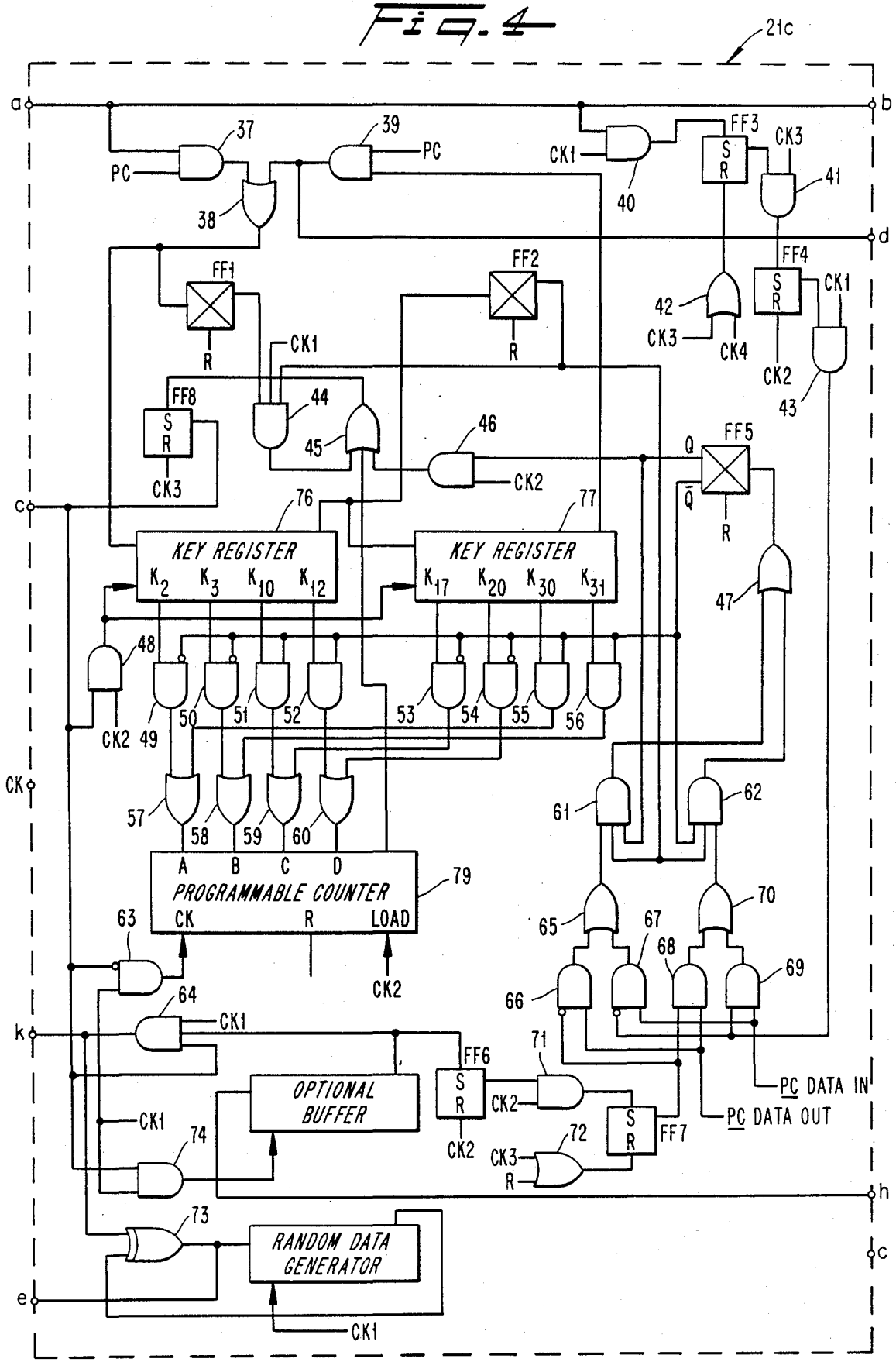


Fig. 4



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