



[54] PORTABLE SECURE SEMICONDUCTOR MEMORY DEVICE

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[21] Appl. No.: 498,848

[22] Filed: Mar. 26, 1990

[30] Foreign Application Priority Data

Mar. 31, 1989 [JP] Japan 1-77979
Mar. 31, 1989 [JP] Japan 1-77980

[51] Int. Cl.⁵ G11B 23/28

[52] U.S. Cl. 380/3; 380/23; 380/25; 380/19; 235/380

[58] Field of Search 380/3, 23, 25, 49; 235/380, 441, 382, 379, 492, 487

[56] References Cited

U.S. PATENT DOCUMENTS

Table of references cited including patent numbers, dates, names, and classification codes.

FOREIGN PATENT DOCUMENTS

Table of foreign patent documents including European Pat. Off., France, Japan, and United Kingdom entries.

Primary Examiner—David Cain
Attorney, Agent, or Firm—Leydig, Voit & Mayer

[57] ABSTRACT

A portable semiconductor memory device for interfacing with and exchanging information with an external terminal, said portable device having a security function for controlling access to a main memory.

33 Claims, 6 Drawing Sheets

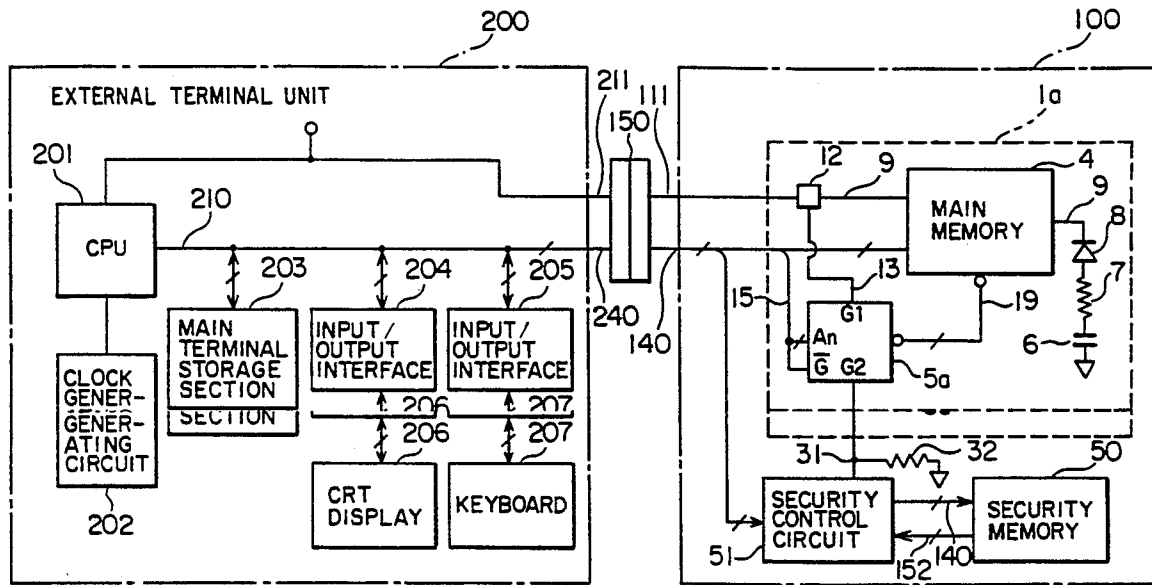


FIG. 1

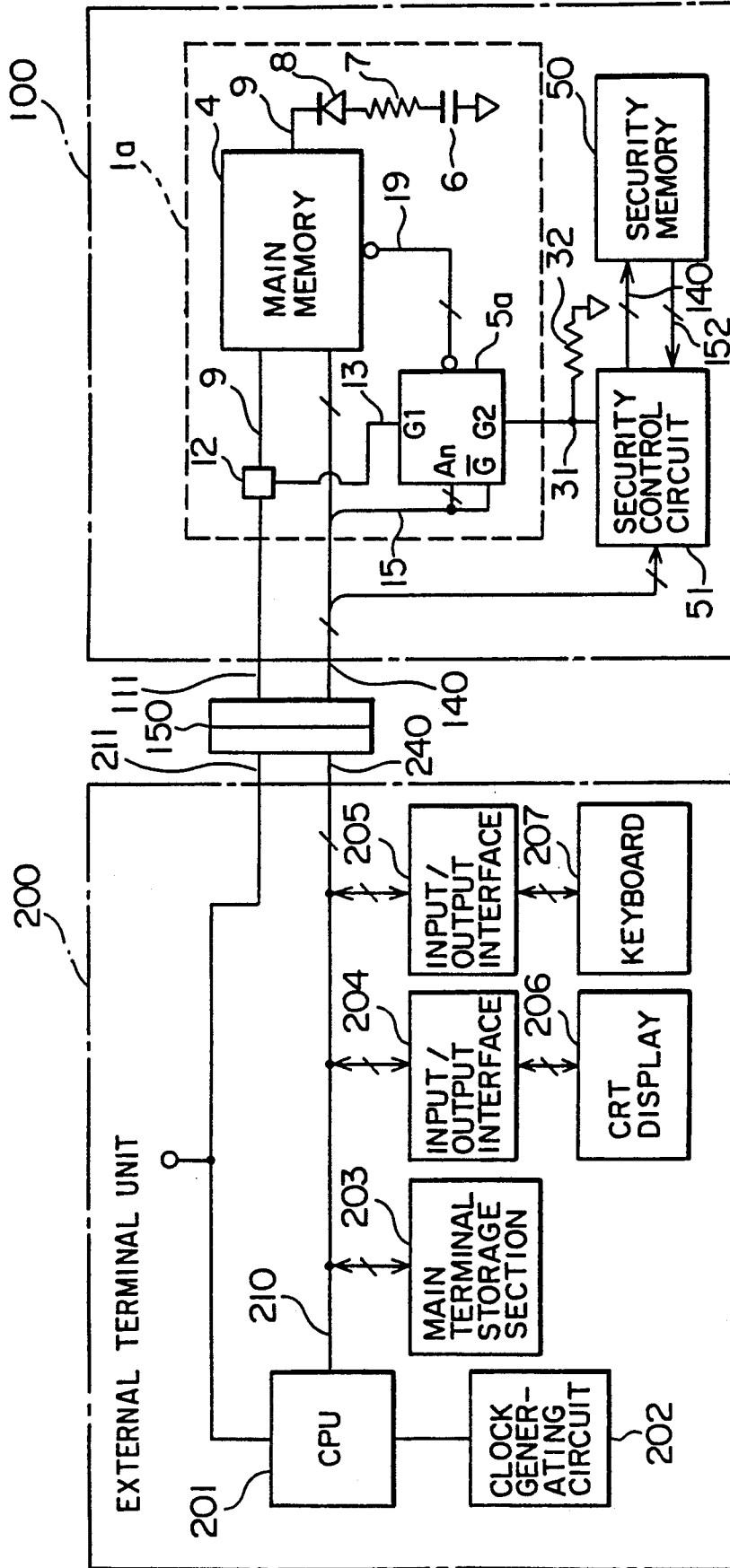


FIG. 3

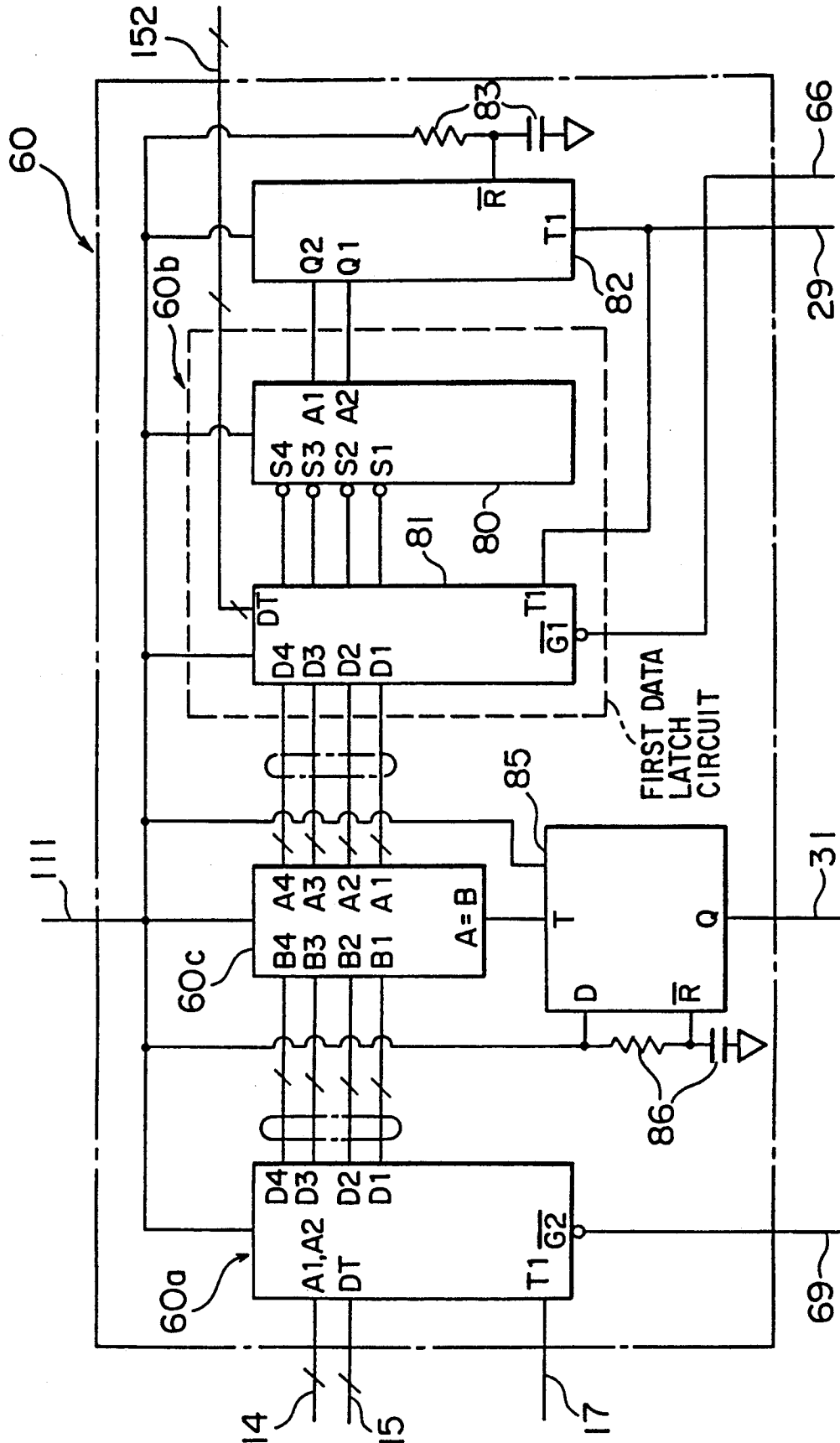


FIG. 4

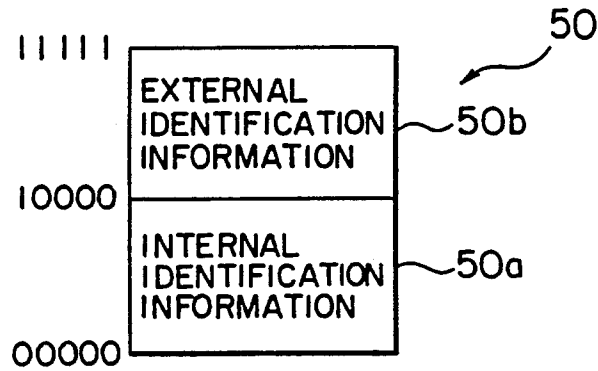
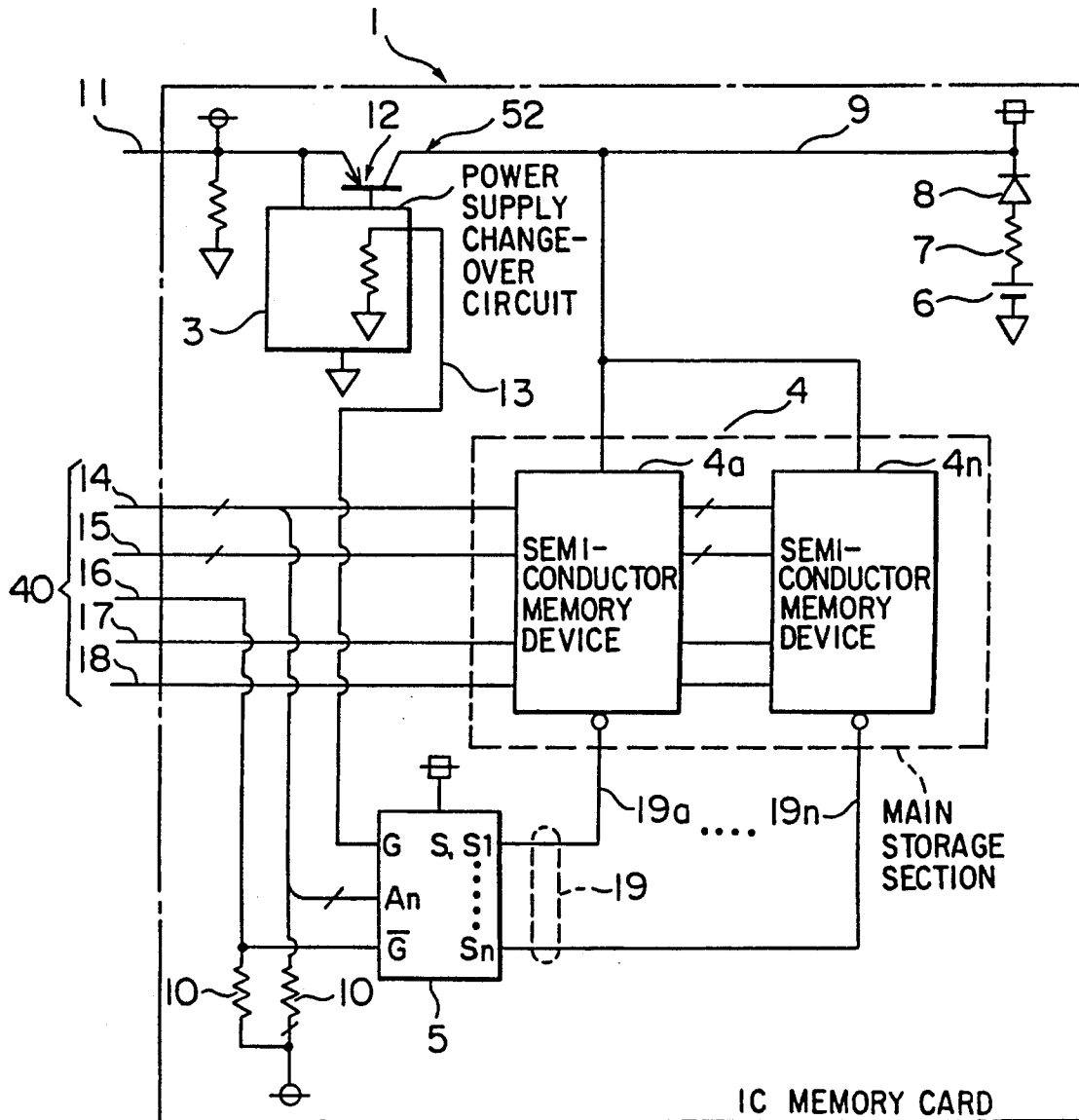


FIG. 7



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