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United States Patent [19]

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Albrecht et al.

[45] Date of Patent: **Nov. 10, 1998**

[54] **METHODS AND APPARATUS FOR PREVENTING UNAUTHORIZED WRITE ACCESS TO A PROTECTED NON-VOLATILE STORAGE**

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[73] Assignee: **Intel Corporation**, Santa Clara, Calif.

[21] Appl. No.: **598,803**

[22] Filed: **Feb. 9, 1996**

[51] Int. Cl.⁶ **H04L 9/00**

[52] U.S. Cl. **380/23; 25/4**

[58] Field of Search 380/3, 4, 23, 24, 380/25, 30

[56] **References Cited**

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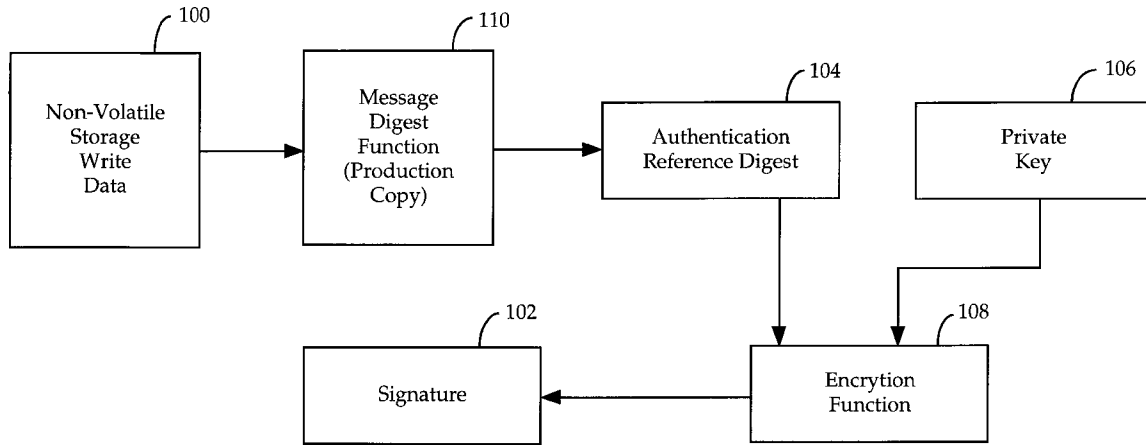
PCT International Search Report for International Application No. PCT/US97/01965, dated Jun. 9, 1997.

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Assistant Examiner—Carmen D. White
Attorney, Agent, or Firm—Blakely, Sokoloff, Taylor & Zafman

[57] **ABSTRACT**

An electronic signature is generated in a predetermined manner and attached to a transferable unit of write data, to facilitate authenticating the write data before allowing the write data to be written into a protected non-volatile storage. The write data is authenticated using a collection of secured authentication functions. Additionally, the actual writing of the authenticated write data into the protected non-volatile storage is performed by a secured copy utility.

23 Claims, 7 Drawing Sheets



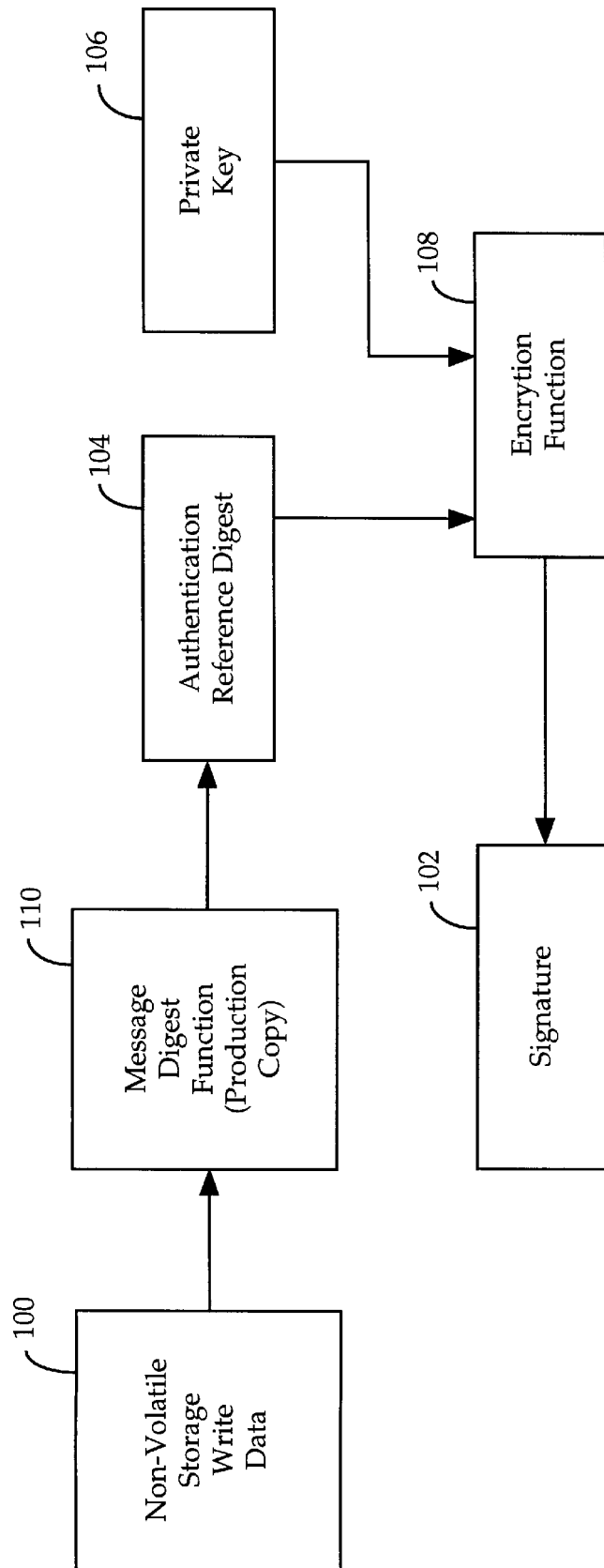


Figure 1

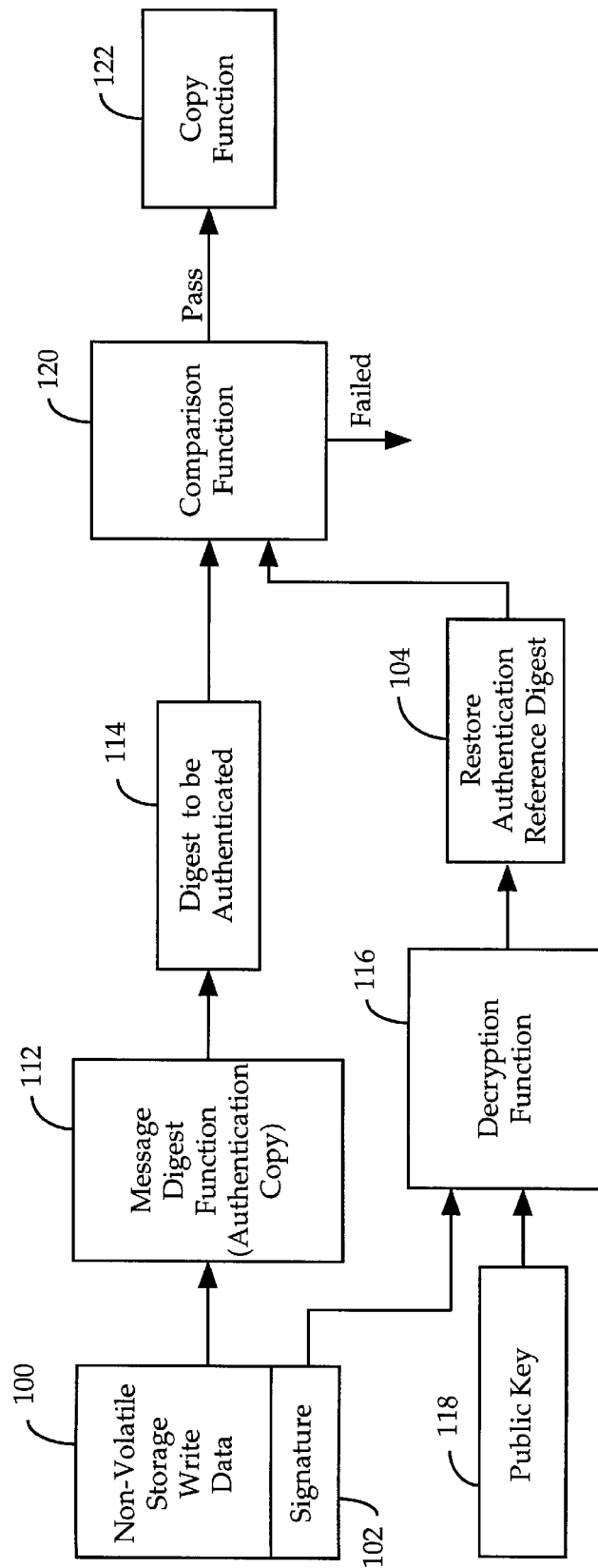


Figure 2

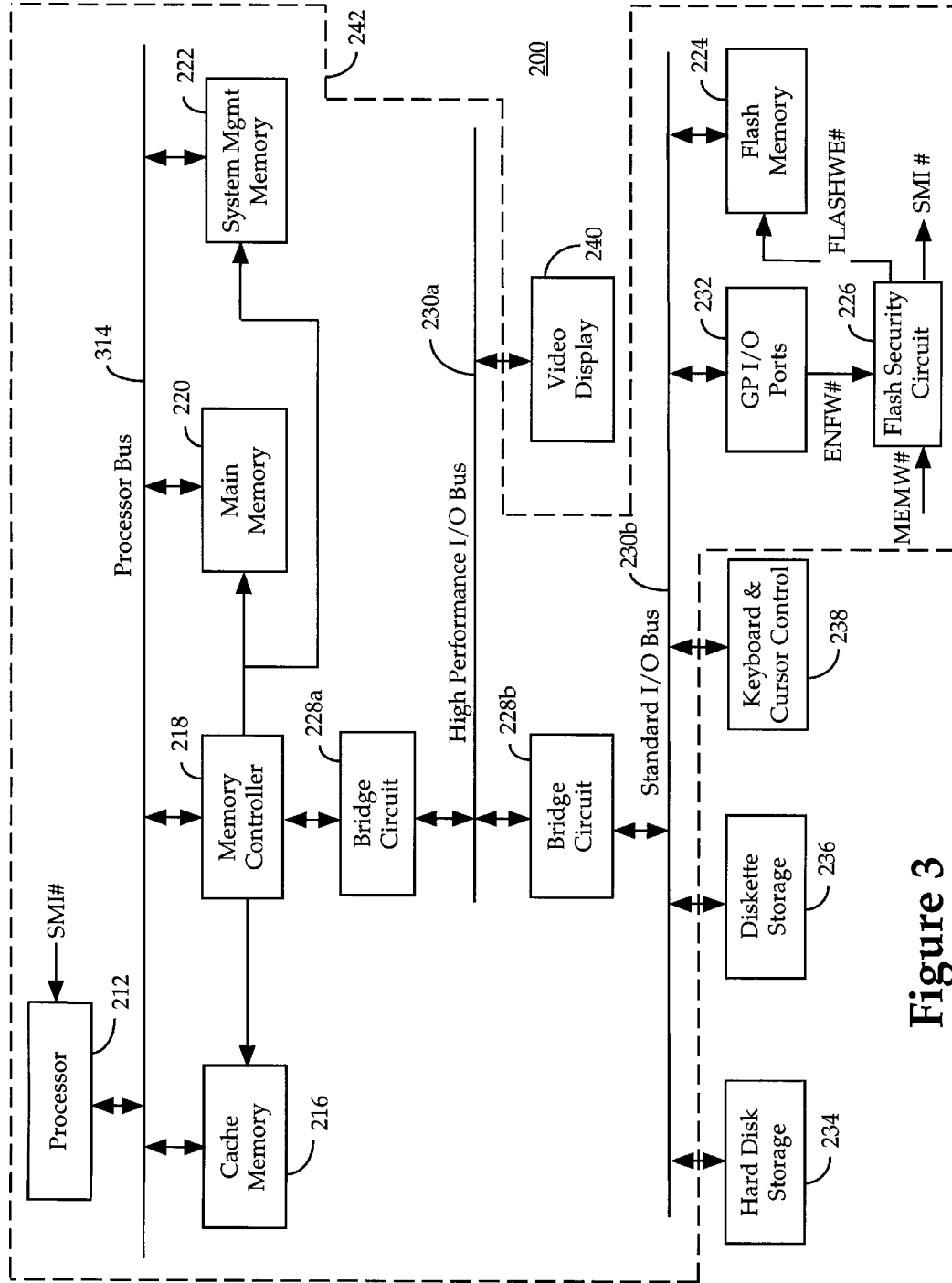


Figure 3

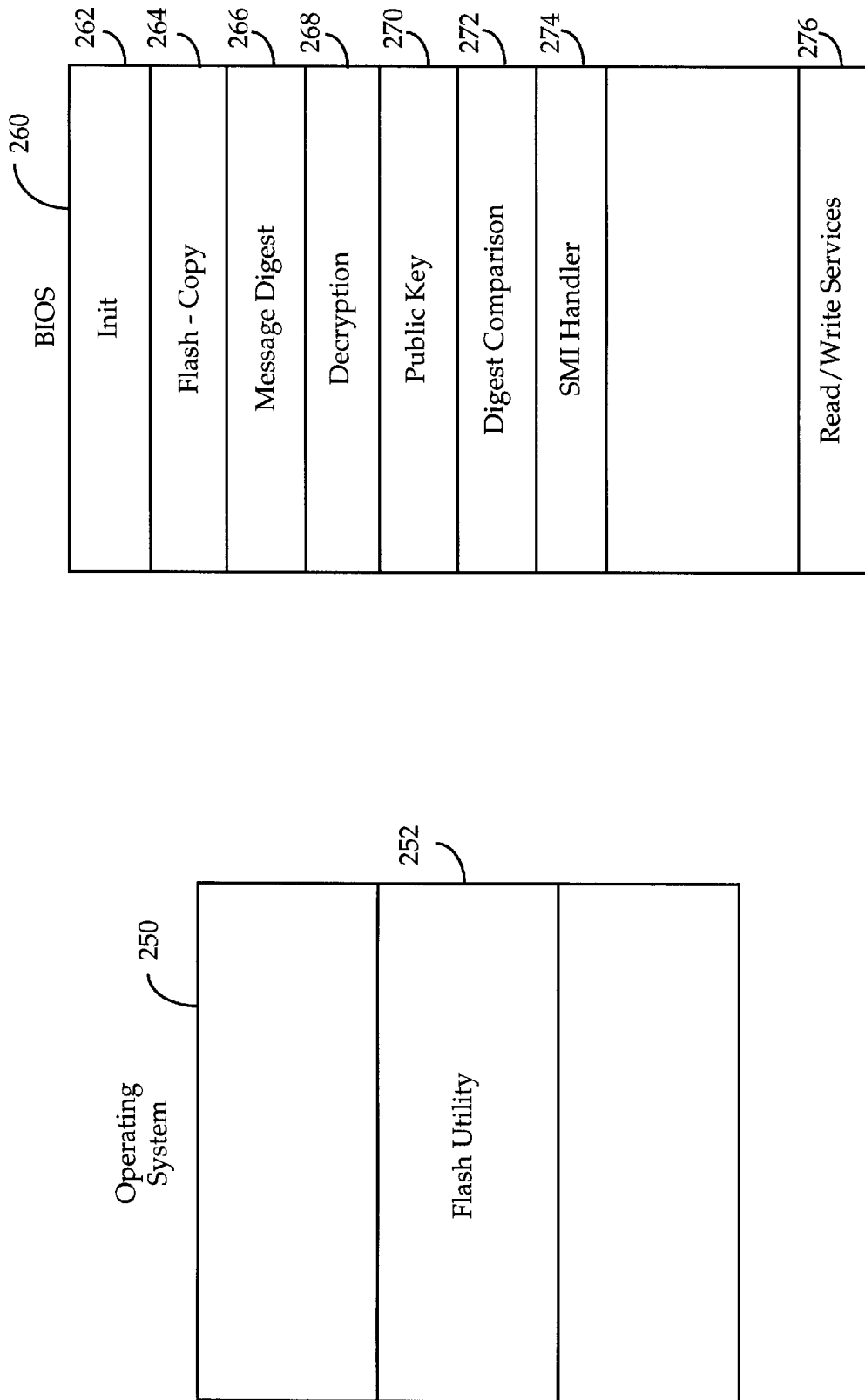


Figure 4

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