

- [54] **COMPUTER ACCESS CONTROL SYSTEM AND METHOD**
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- [73] Assignee: **Enigma Logic, Inc.**, Concord, Calif.
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- [51] Int. Cl.<sup>5</sup> ..... **H04L 9/00**
- [52] U.S. Cl. .... **380/25; 380/23; 340/825.31**
- [58] **Field of Search** ..... 364/918.7, 943.7, 949.7, 364/922.5, 222.5, 260.6, 225.2; 340/825.31, 825.34, 825.56, 825.3; 235/382, 382.5, 380; 380/23, 24, 25

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[57] **ABSTRACT**

An access control system is disclosed in which protected systems and corresponding portable password issuing devices both generate new authentic passwords by successively encrypting a stored password with a selected sequence of predefined encryption steps. The protected system generates and displays one or more random digits, selects an encryption sequence by appending the random digits to the user's personal identification number, and generates an authentic password by sequentially encrypting the user's previous password with encryption steps corresponding to each of the digits in the selected encryption sequence. The user generates a purported password by entering his PIN and the displayed random number(s) on the keyboard of his password issuing device, which responds to encrypting a stored previous password value with encryption steps corresponding to the user's keystrokes, and displaying a new password on its display. The user submits his purported new password to the protected system, and the protected system enables access to the protected system when the purported password matches the internally generated authentic password. Each password issuing device can store and generate passwords for a multiplicity of distinct protected host systems.

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

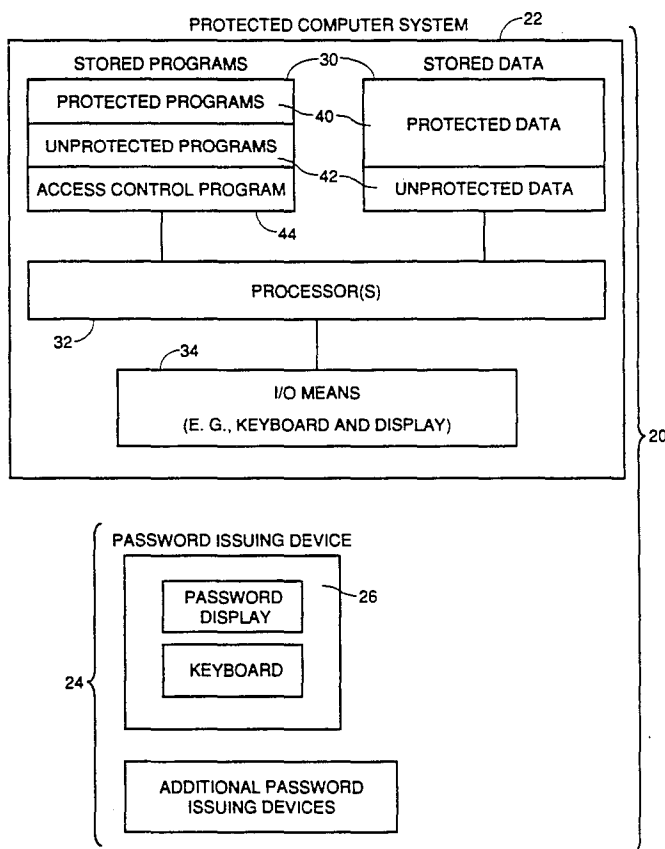
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Primary Examiner—Thomas H. Tarcza  
Assistant Examiner—David Cain

25 Claims, 8 Drawing Sheets



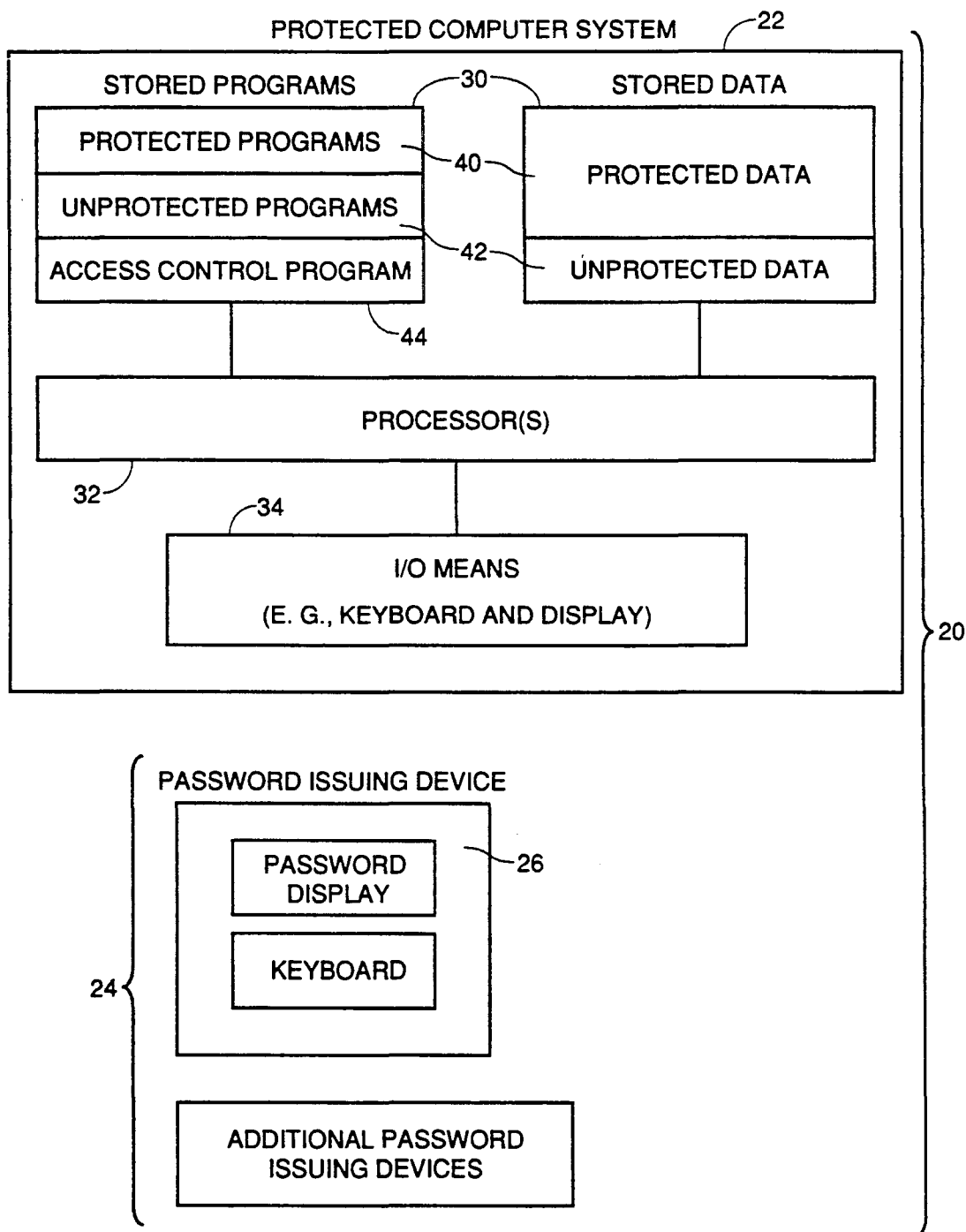


FIGURE 1

	PASSWORD	PIN	LIMITATIONS ON AUTHORIZED ACCESS	DES KEYS 0-9
USER 0	PASSWORD 0	PIN 0	SPECIFIED LIMITS: 0	DES KEYS FOR 0
USER 1	PASSWORD 1	PIN 1	SPECIFIED LIMITS: 1	DES KEYS FOR 1
USER 2	PASSWORD 2	PIN 2	SPECIFIED LIMITS: 2	DES KEYS FOR 2
USER 3	PASSWORD 3	PIN 3	SPECIFIED LIMITS: 3	DES KEYS FOR 3

USER N	PASSWORD N	PIN N	SPECIFIED LIMITS: N	DES KEYS FOR N
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FIGURE 2

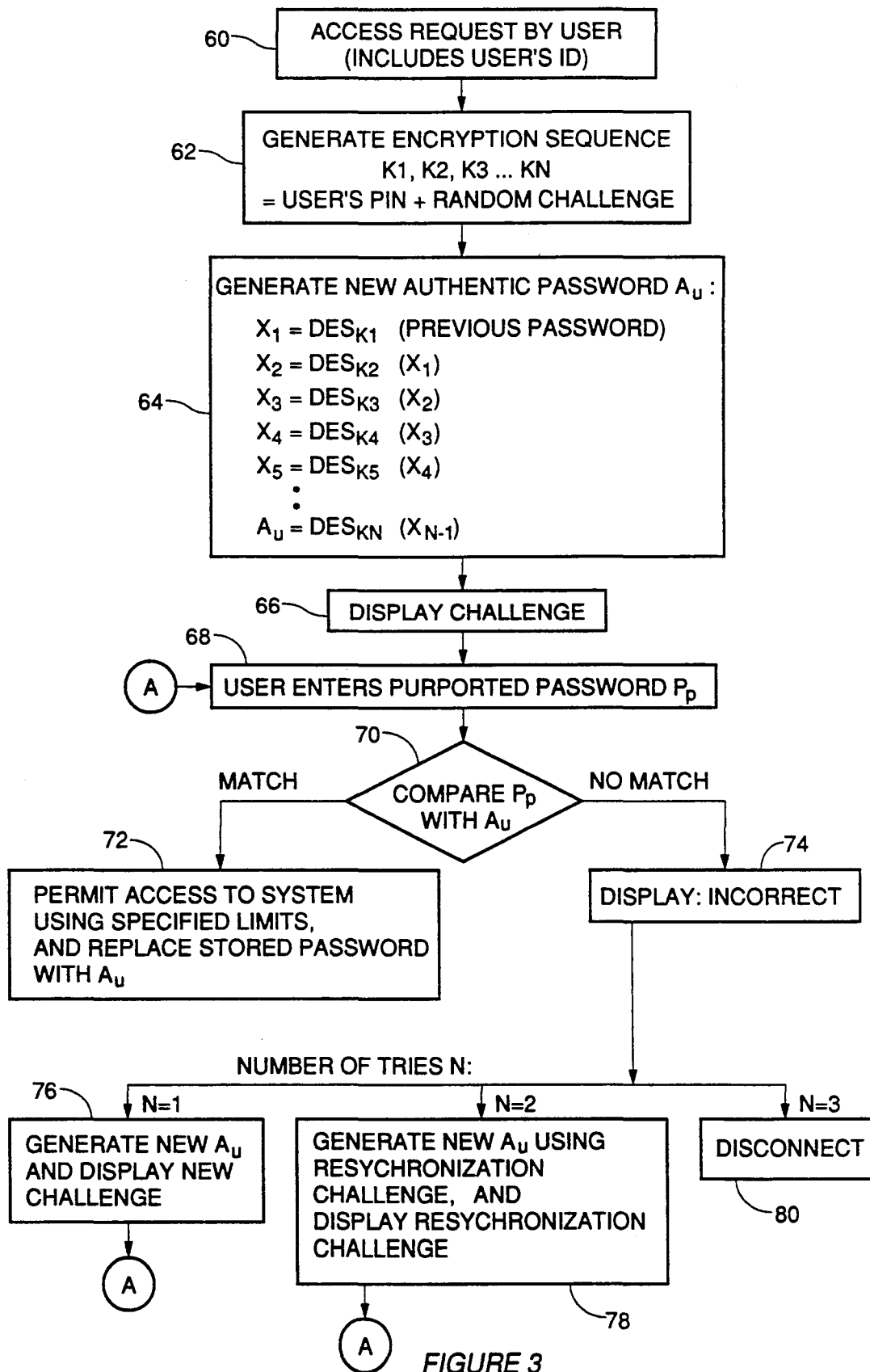


FIGURE 3

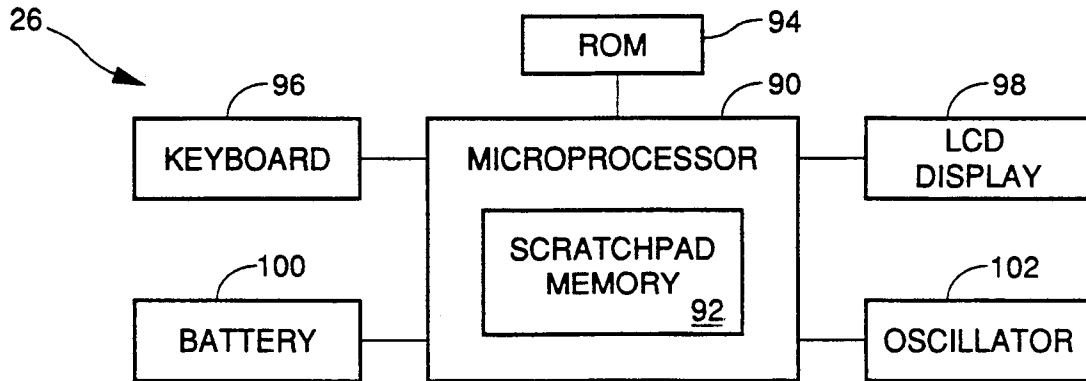


FIGURE 4

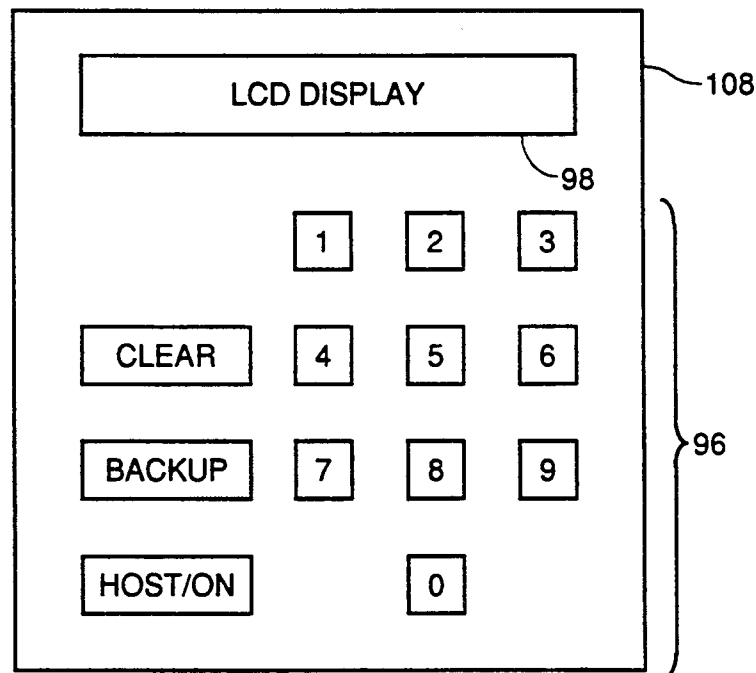


FIGURE 5

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