United States Patent [19]

Weiss

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[54] **METHOD AND APPARATUS FOR SYNCHRONIZING GENERATION OF SEPARATE, FREE RUNNING, TIME DEPENDENT EQUIPMENT**

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[21] Appl. No.: **802,579**

[22] Filed: **Nov. 27, 1985**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 676,626, Nov. 30, 1984, Pat. No. 4,720,860.

[51] **Int. Cl.**[4] **H04L 9/00**

[52] **U.S. Cl.** **380/48**; 380/23; 380/25; 380/28; 235/382; 340/825.31; 340/825.34

[58] **Field of Search** 364/200, 900, 571; 235/382, 380; 375/110; 370/104, 103; 368/46, 47; 380/23–25, 28, 48; 178/22.08, 22.09, 22.17; 340/825.31, 825.34

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,764,742	10/1973	Abbott et al.	380/23
3,789,653	2/1974	Brejand	368/47
3,806,874	4/1974	Ehrat	178/22.08
3,886,451	5/1975	Chu et al.	364/571
3,900,867	8/1975	Wagner	342/45
3,995,111	11/1976	Tsuji et al.	370/104
4,104,694	8/1978	Hargrove	340/825.31
4,126,761	11/1978	Groupe et al.	380/48
4,145,568	3/1979	Ehrat	178/22.17
4,145,569	3/1979	Ehrat	178/22.17
4,185,166	1/1980	Kinch, Jr. et al.	380/43
4,193,073	3/1980	Kohnen	342/56
4,320,387	3/1982	Powell	340/825.34
4,326,098	4/1982	Bouricius et al.	380/25
4,494,211	1/1985	Schwartz	368/47
4,543,657	9/1985	Wilkinson	375/1
4,582,434	4/1986	Plangger et al.	368/47
4,589,066	5/1986	Lam et al.	364/200
4,599,489	7/1986	Cargile	380/4
4,609,777	9/1986	Cargile	380/4
4,636,583	1/1987	Bidell et al.	380/48
4,641,322	2/1987	Hasegawa	375/1
4,677,617	6/1987	O'Connor et al.	375/1 X
4,720,860	1/1988	Weiss	380/23

FOREIGN PATENT DOCUMENTS

0010496	4/1980	European Pat. Off. .
0140013	5/1985	European Pat. Off. .

OTHER PUBLICATIONS

IBM Tech. Discl. Bull.; (vol. 26; No. 7A; 12/83; pp. 3292–3293).

IBM Tech. Discl. Bull.; (vol. 28; No. 7A; 12/83; pp. 3286–3288).

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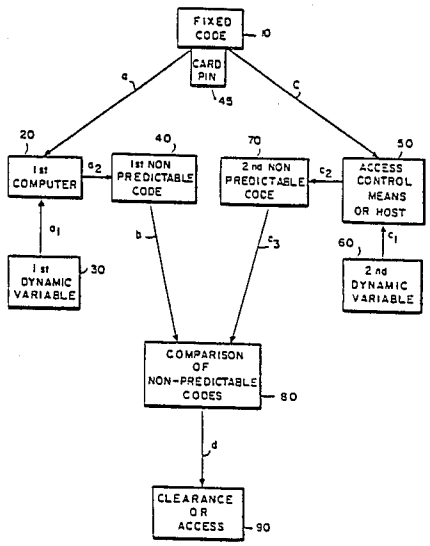
[57] **ABSTRACT**

An apparatus and method for synchronizing the time definition of the dynamic variables by (a) calculating a first non-predictable code according to a secret predetermined algorithm, the algorithm generating the first non-predictable code on the basis of a first dynamic variable and a unique static variable; (b) automatically defining the first dynamic according to a first interval in which the static variable is input into the algorithm, the first interval of time having a predetermined duration; (c) calculating two or more second non-predictable codes according to the predetermined algorithm, the algorithm generating the second non-predictable codes on the basis of the two or more second dynamic variables and the unique static variable, (d) automatically defining the two or more second dynamic variables according to two or more cells of a second interval of time in which the static variable is input into the algorithm of the second computer, the second interval of time comprising a central cell of time having a predetermined duration and one or more cells of time bordering the central cell of time, each bordering cell of time having a predetermined duration; (e) comparing the first non-predictable code with the second non-predictable codes to determine a match, and (f) automatically synchronizing the clock mechanisms which define the first and second dynamic variables upon comparison and matching of the first non-predictable code with one of the second non-predictable codes.

26 Claims, 5 Drawing Sheets



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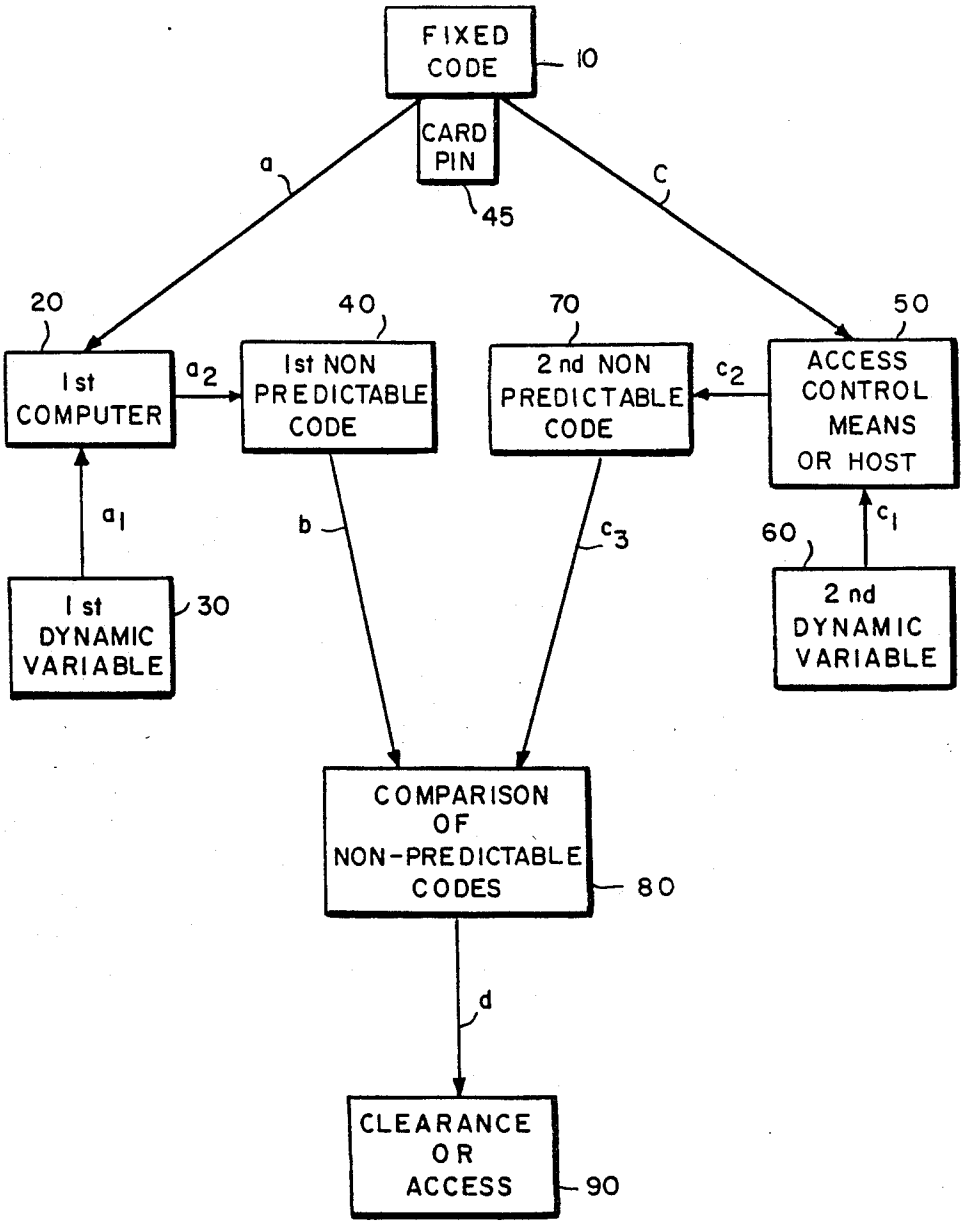

FIG. 1

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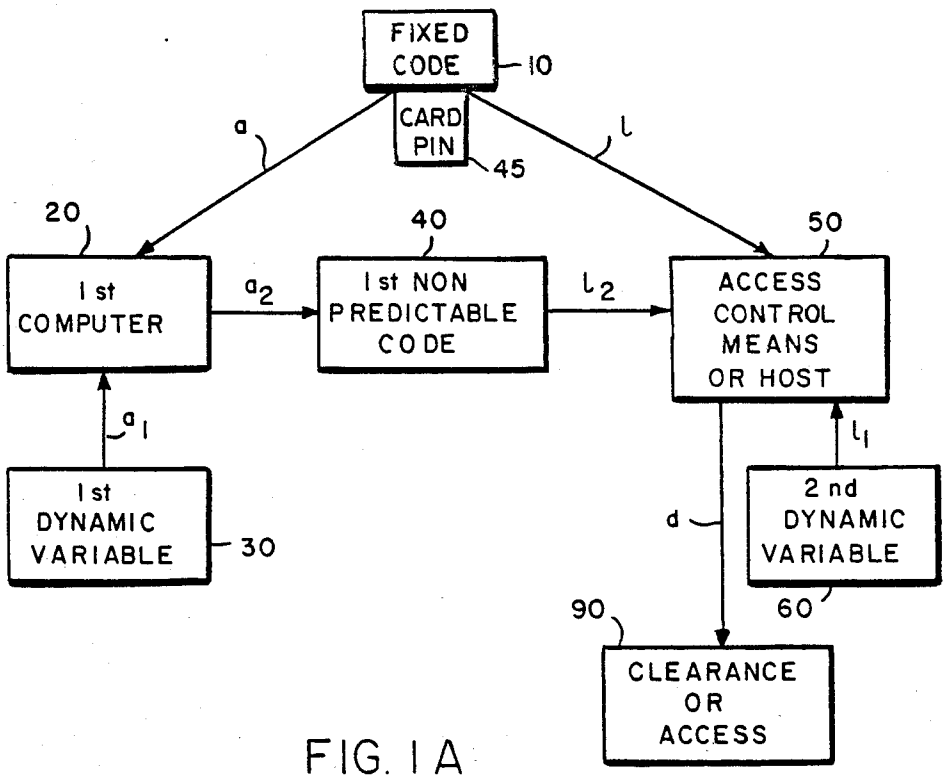

FIG. 1A

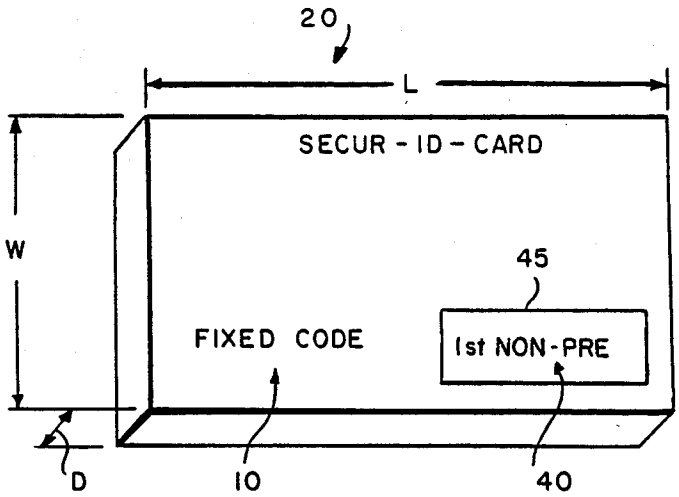

FIG. 2

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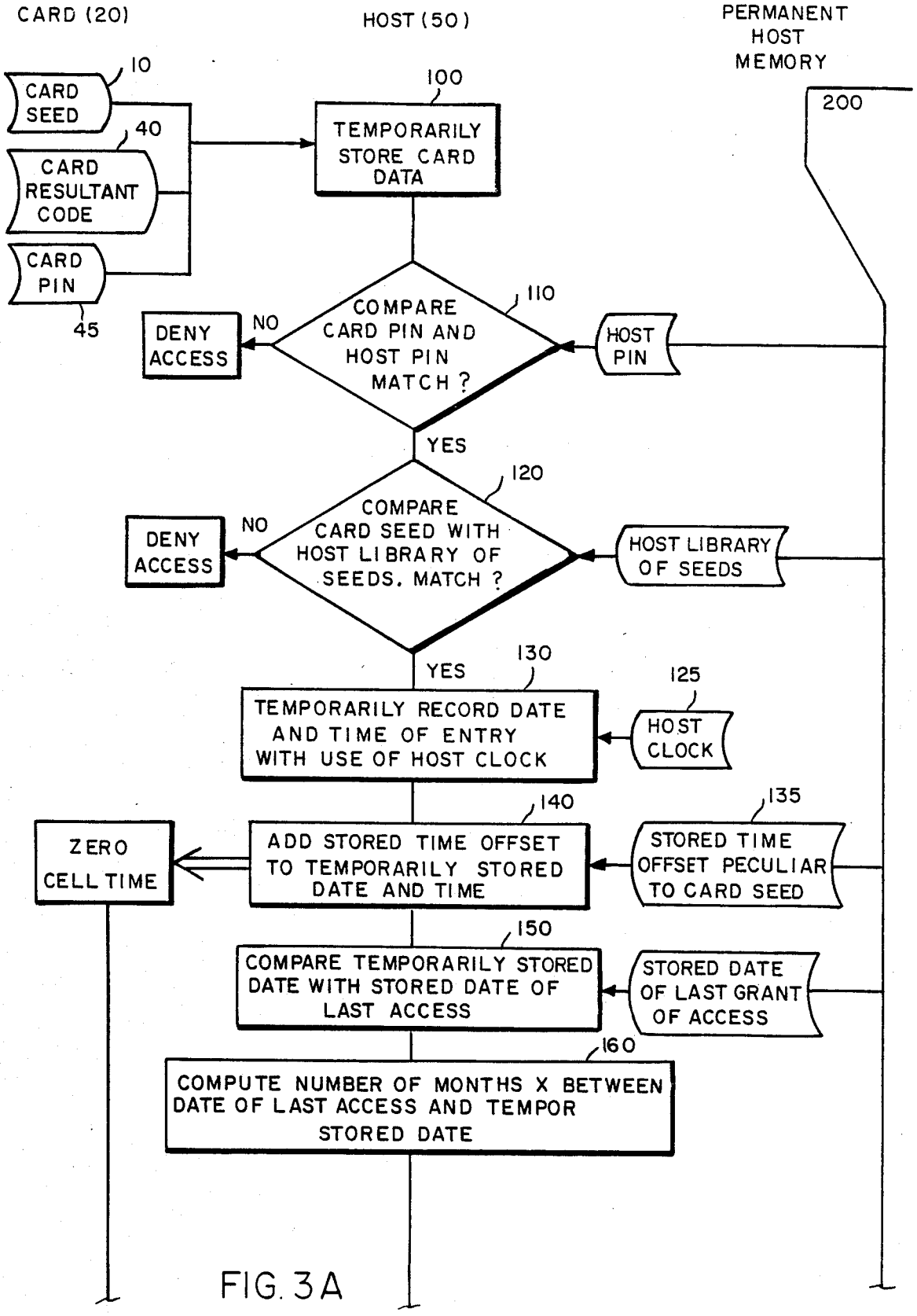

FIG. 3A

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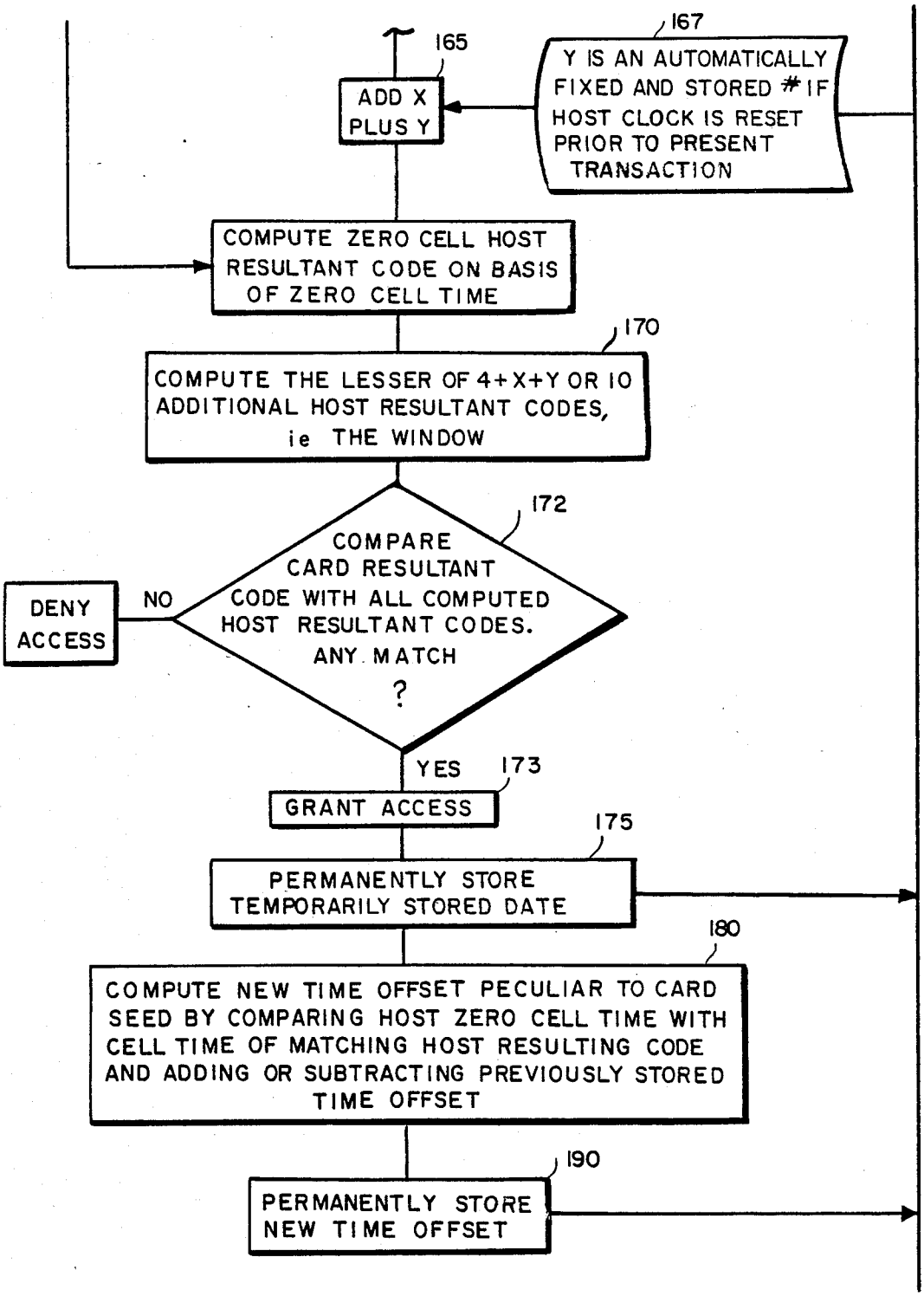

FIG. 3B

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