

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

4,720,860 1/1988 Weiss 380/23

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[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

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Assistant Examiner—Bernarr Earl Gregory
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[57] ABSTRACT

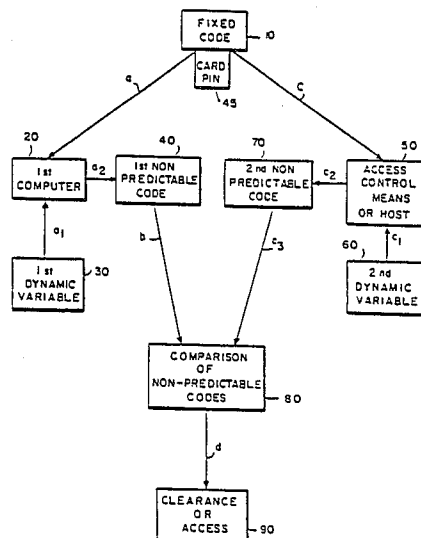
An apparatus and method for synchronizing the time definition of the dynamic variables by (a) calculating a first non-predictable code according to a secret predetermined algorithm, the algorithm generating the first non-predictable code on the basis of a first dynamic variable and a unique static variable; (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.

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26 Claims, 5 Drawing Sheets



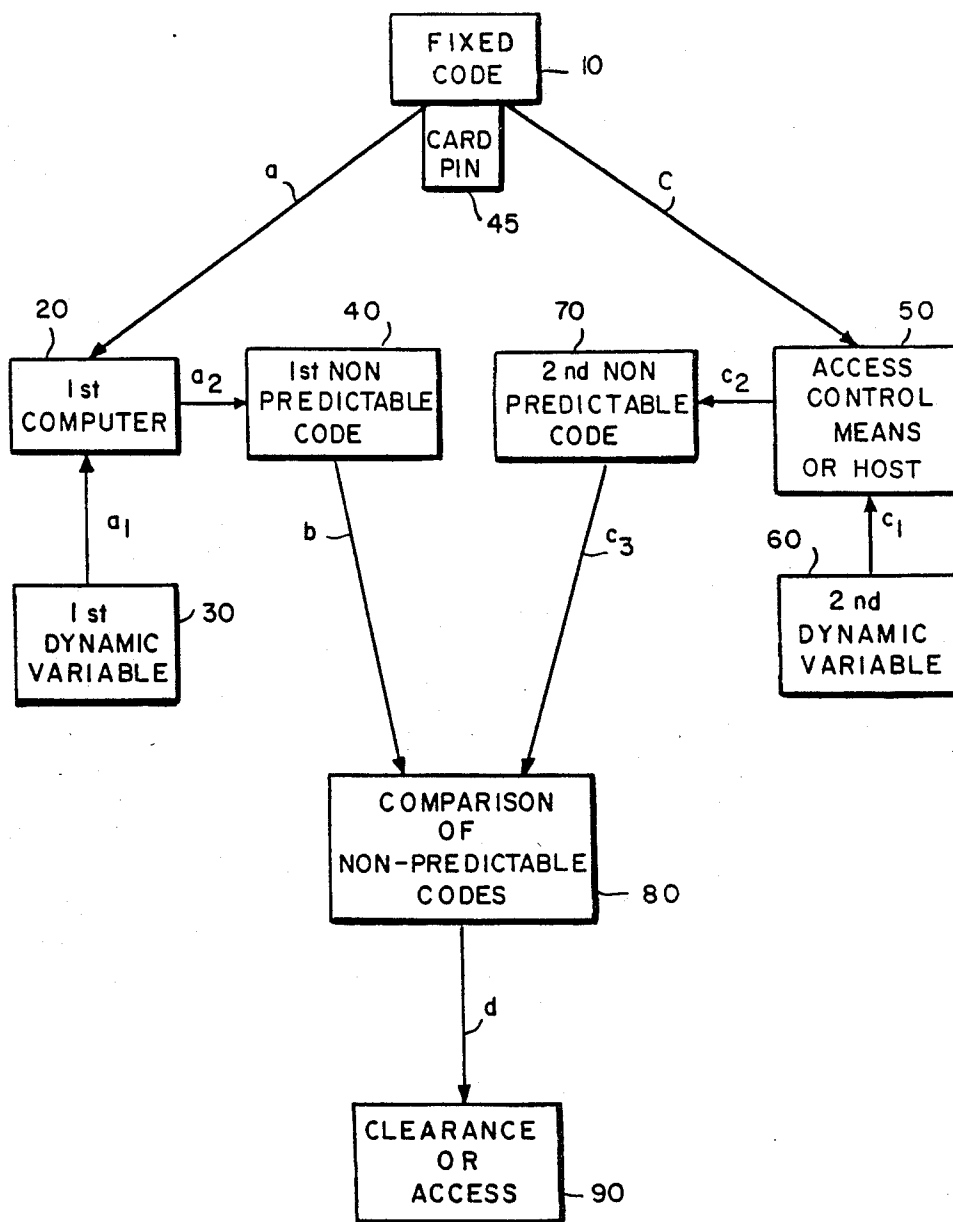


FIG. 1

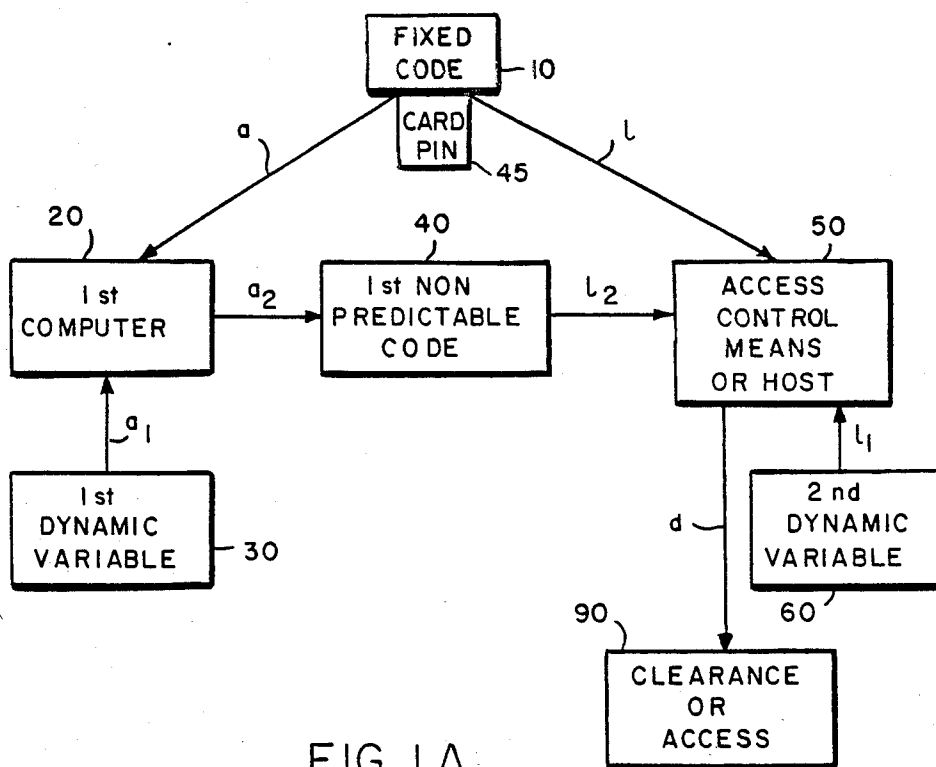


FIG. 1A

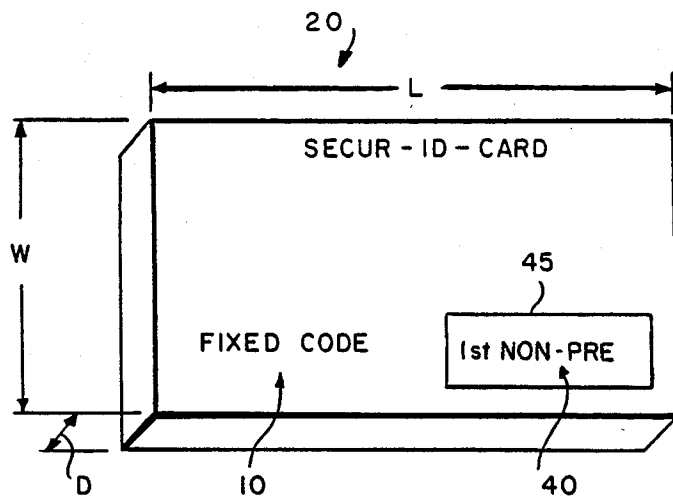


FIG. 2

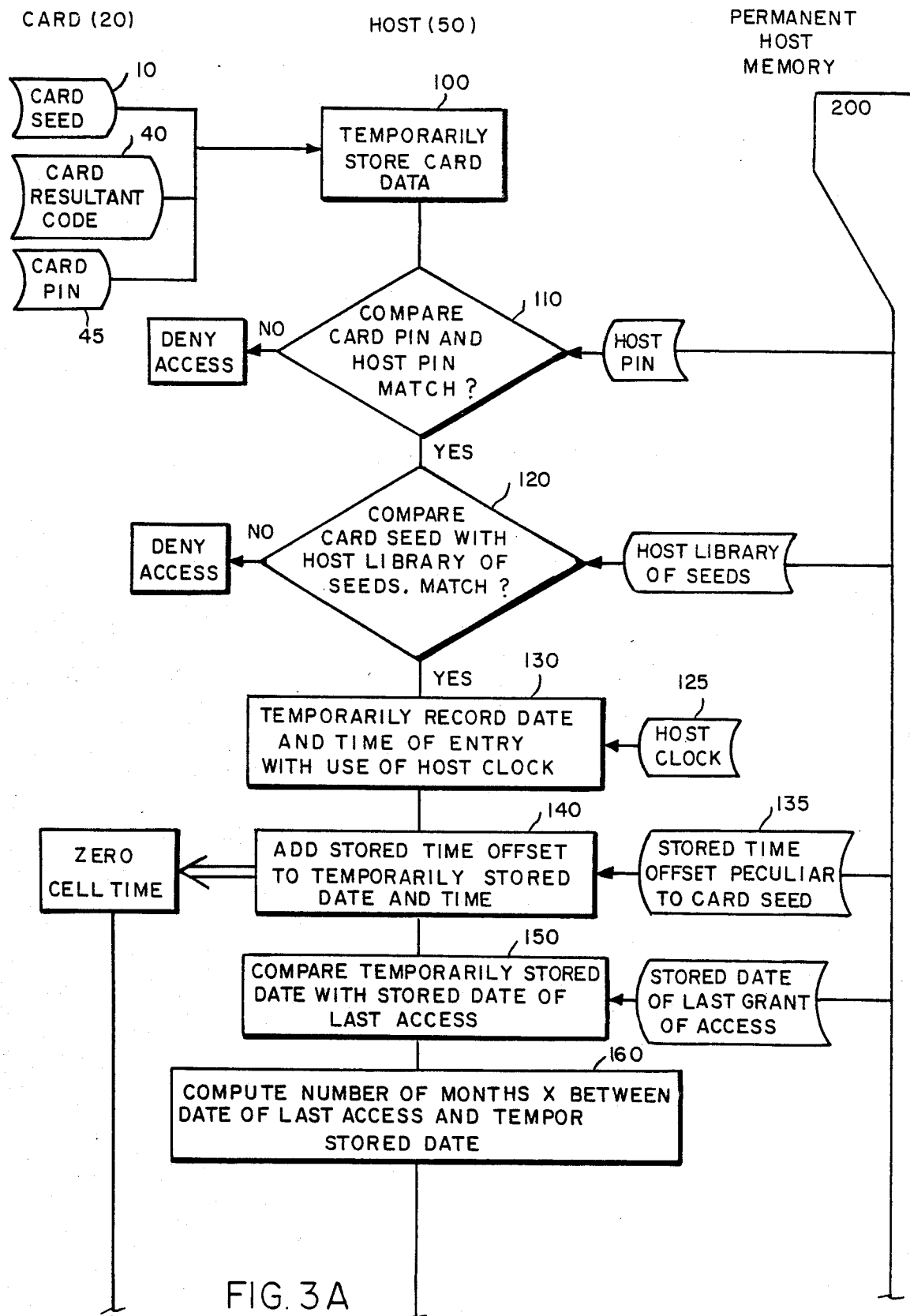


FIG. 3A

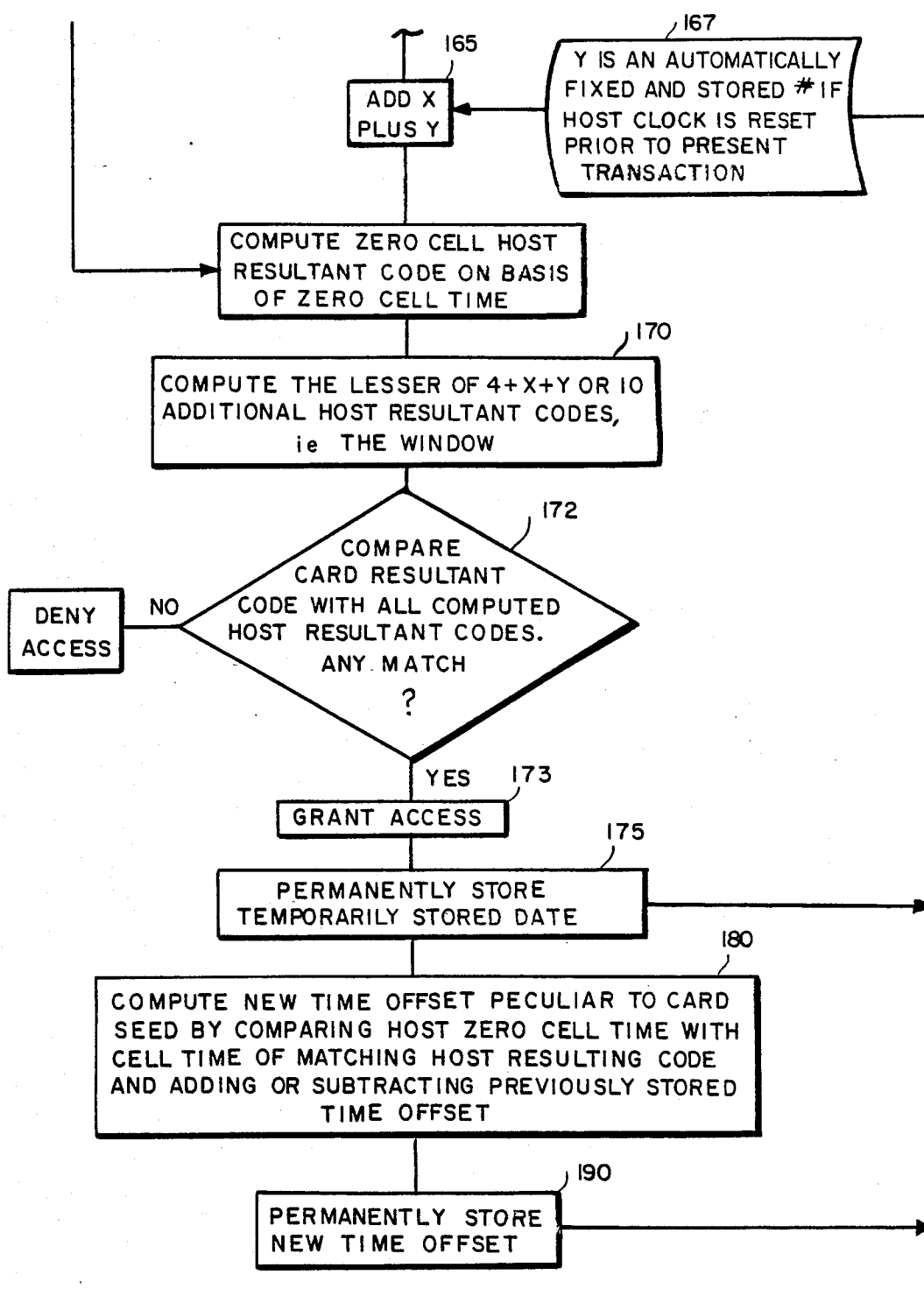


FIG. 3B

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