



[54] SYSTEM AND METHOD FOR SAFETY DISTRIBUTING EXECUTABLE OBJECTS

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[51] Int. Cl.⁶ H04K 1/00; H04L 9/00

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

[58] Field of Search 380/25, 24, 23, 380/4; 395/157

[56] References Cited

U.S. PATENT DOCUMENTS

4,868,877	9/1989	Fischer	380/25
5,005,200	4/1991	Fischer	380/25
5,214,702	5/1993	Fischer	380/25
5,311,591	5/1994	Fischer	380/4
5,412,717	5/1995	Fischer	380/25
5,412,774	5/1995	Agrawal	395/157
5,692,047	11/1997	McManis	380/4
5,745,574	4/1998	Muftic	380/25
5,825,877	10/1998	Dan et al.	380/25

OTHER PUBLICATIONS

Schneier, Bruce, "Applied Cryptography, Second Edition: Protocols, Algorithms, and Source Code in C," (1996), pp. 574-577.

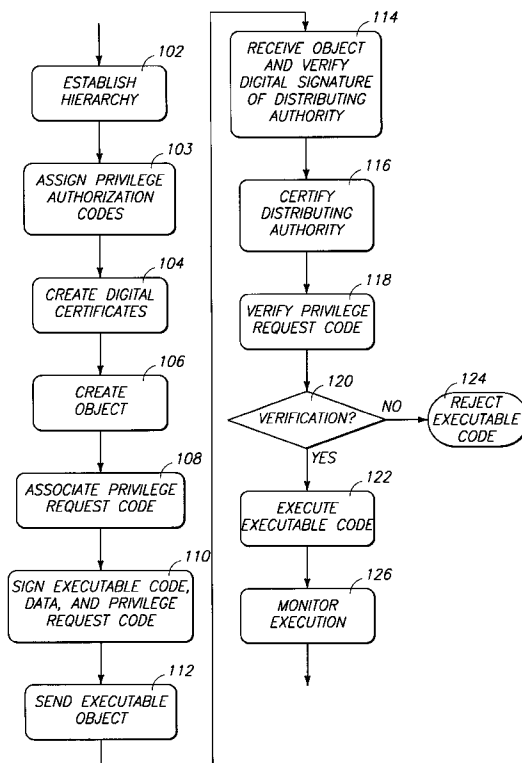
Bank, Joseph A., "Java Security," (Dec. 8, 1995), found at Internet URL <http://swissnet.ai.mit.edu/~jbank/javapaper/javapaper.html/>.

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[57] ABSTRACT

The invention includes a method and system for distributing and executing executable code. Before sending executable code to a client, a distributing authority associates a privilege request code with the executable code. The privilege request code indicates a requested set of privileges that the executable code will potentially exercise during execution. The distributing authority digitally signs the executable code and associated privilege request code and then distributes it for eventual execution by clients. Before executing the executable code, a client verifies the digital signature to confirm the authenticity and integrity of the executable code and associated privilege request code. This verification utilizes a hierarchy of certifying authorities. While the code executes, the client monitors it and prevents it from exercising privileges that are not in the requested set of privileges.

20 Claims, 4 Drawing Sheets



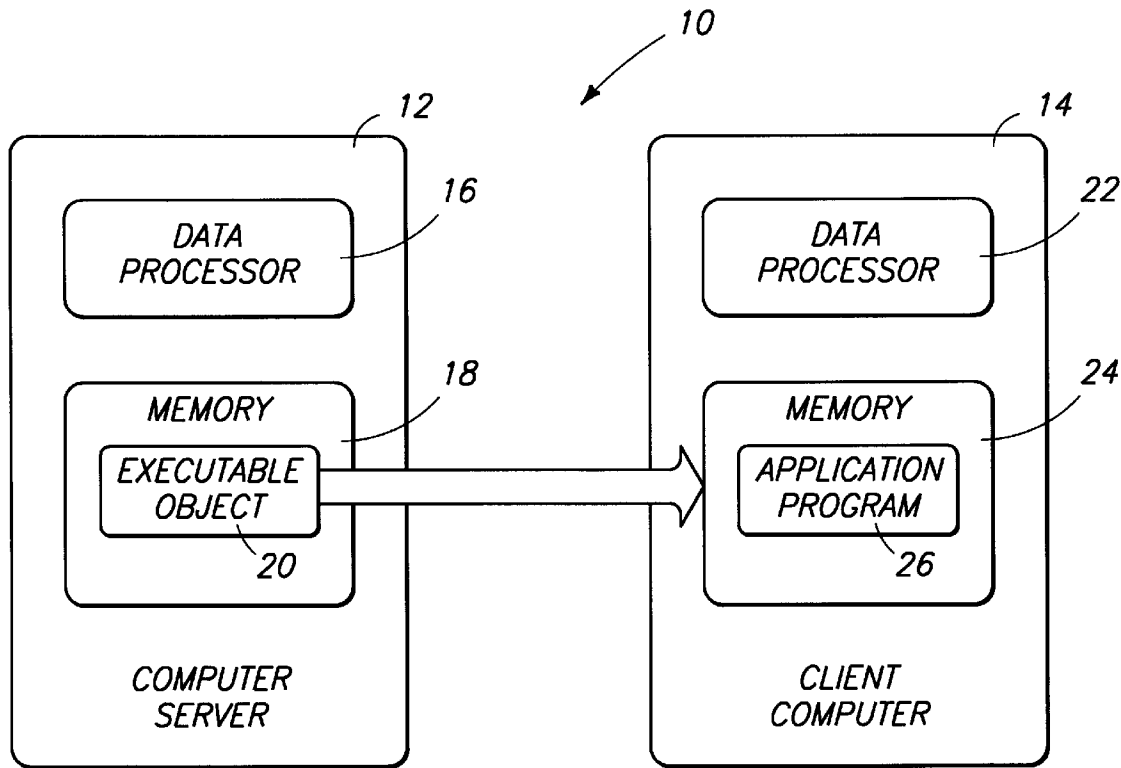


Fig 1

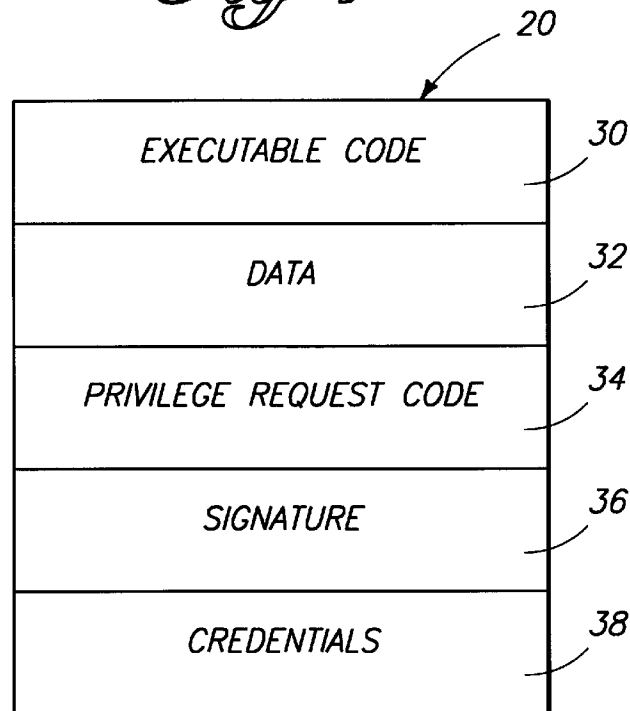


Fig 2

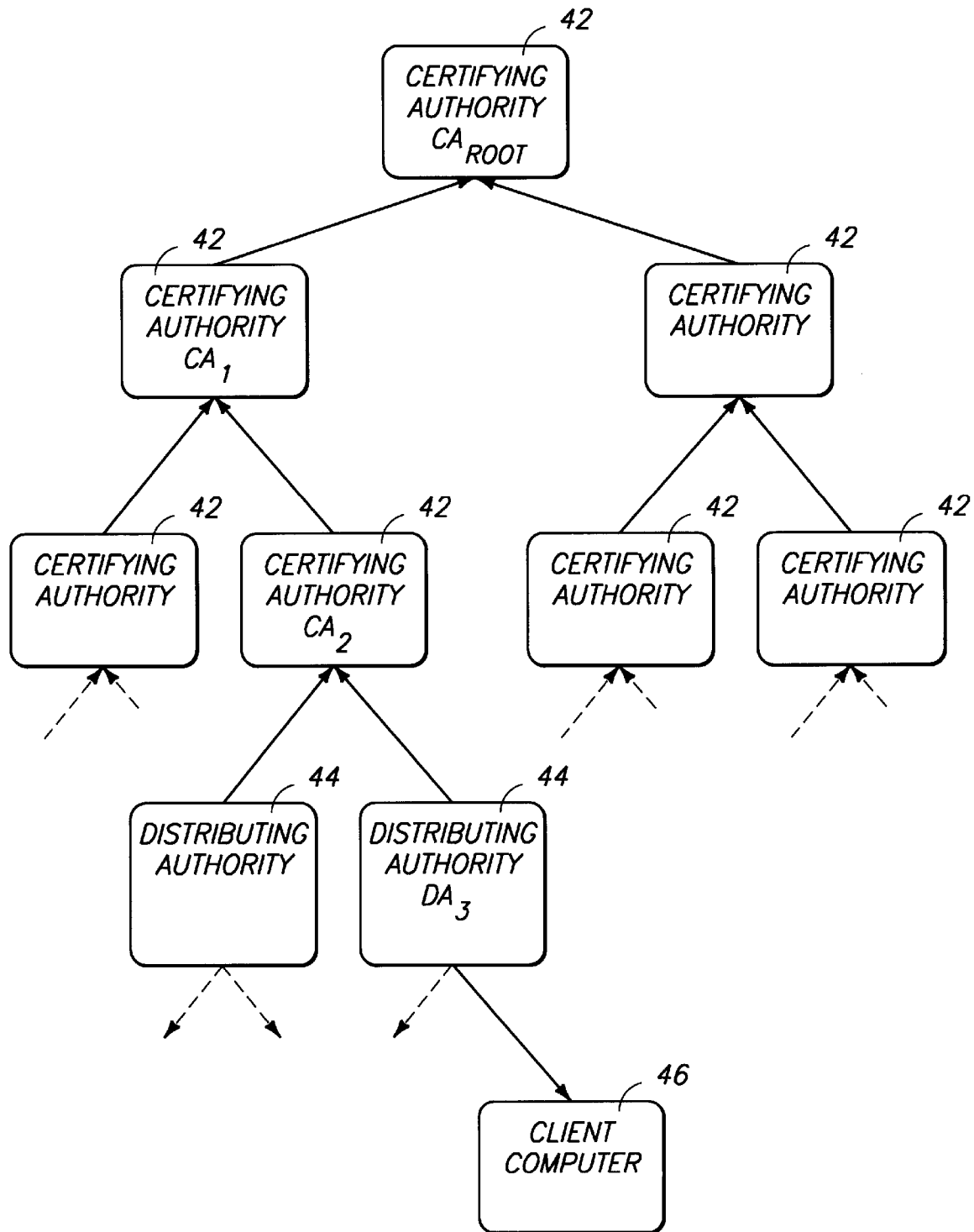


Fig. 3

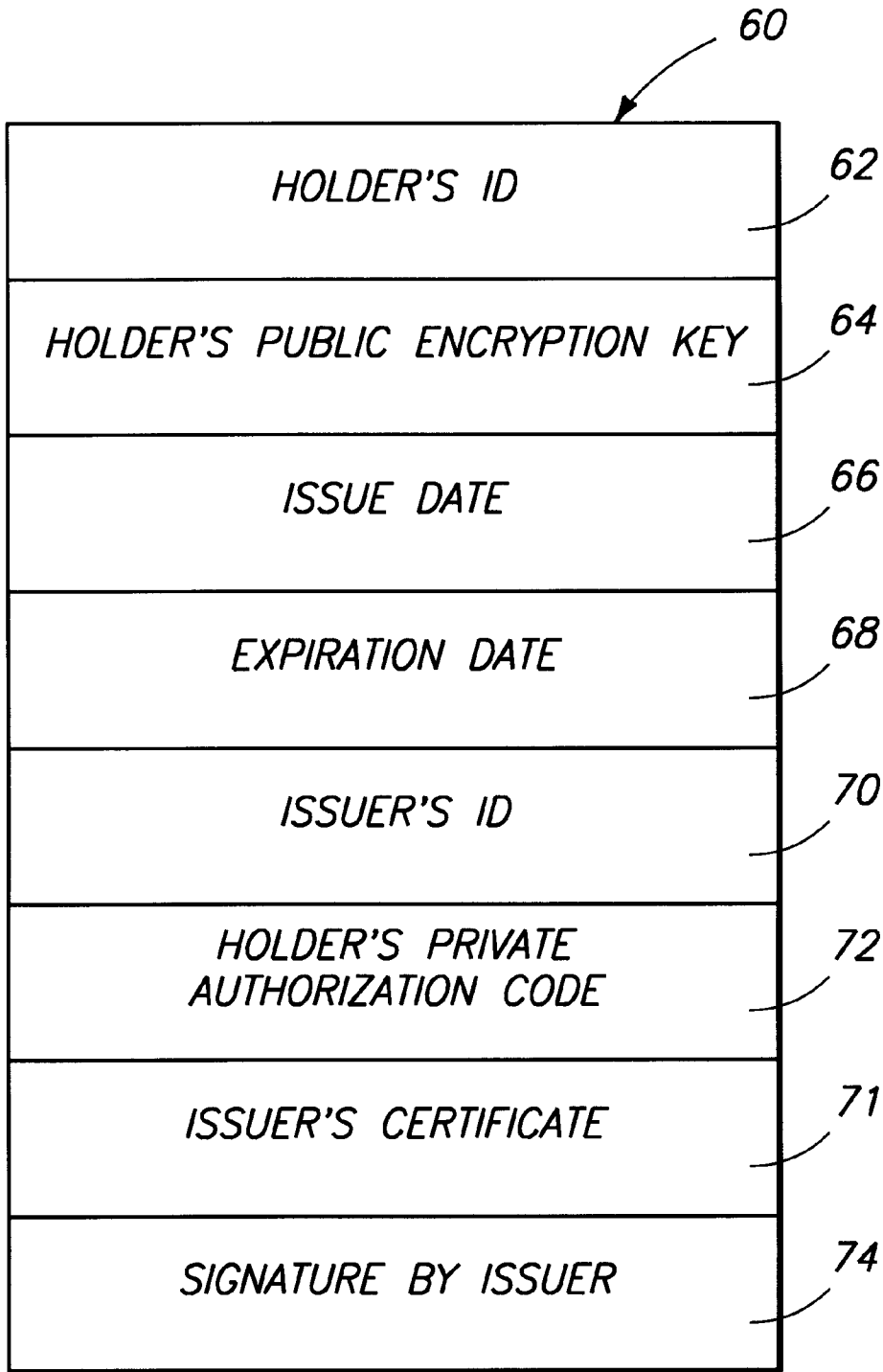


Fig 4

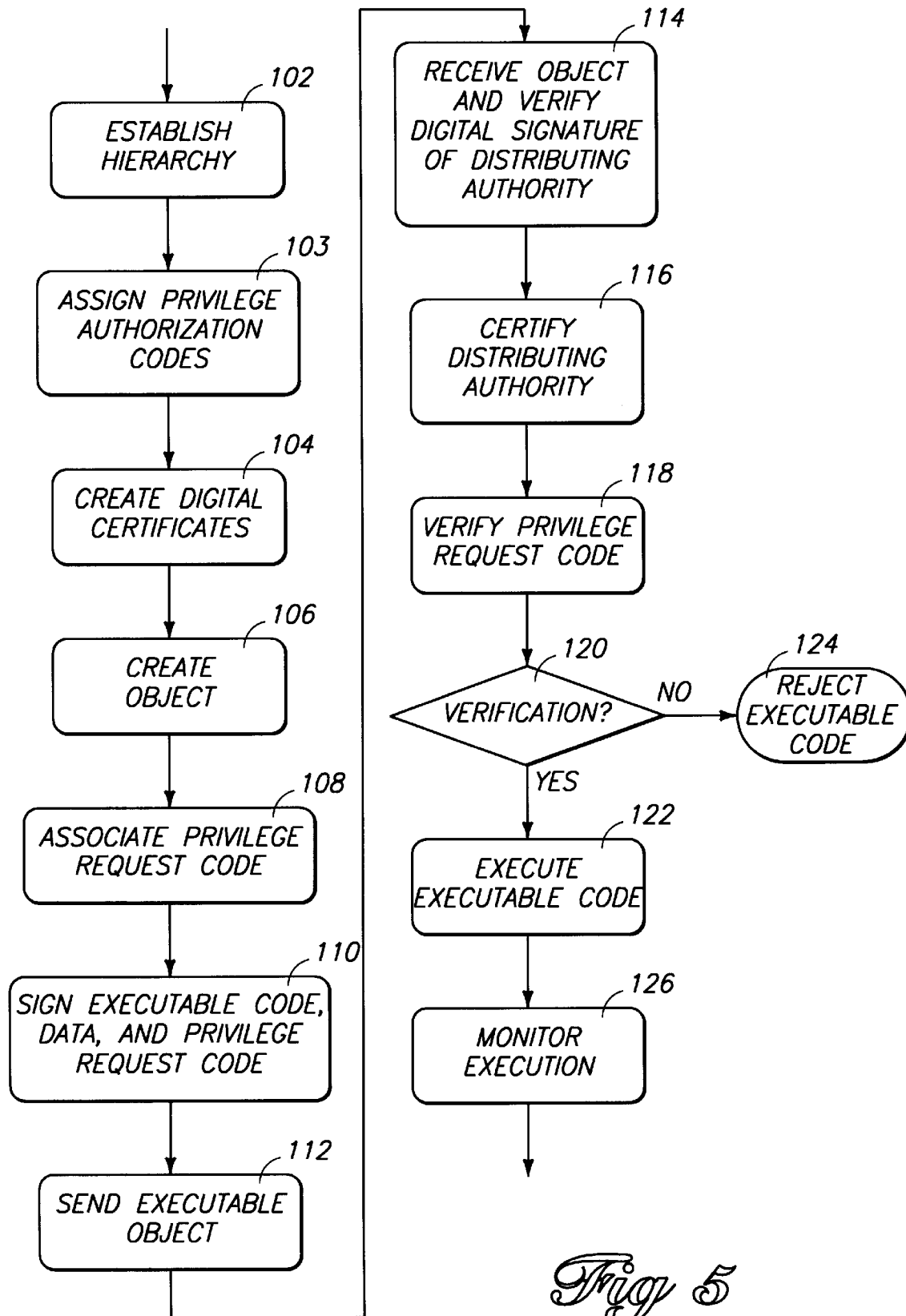


Fig 5

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