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# United States Patent [19]

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Wyman

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[54] MANAGEMENT INTERFACE FOR LICENSE MANAGEMENT SYSTEM

[75] Inventor: Robert M. Wyman, Kirkland, Wash.

[73] Assignee: Digital Equipment Corporation, Maynard, Mass.

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[22] Filed: Jul. 14, 1992

### Related U.S. Application Data

[63] Continuation of Ser. No. 722,840, Jun. 28, 1991, abandoned.

[51] Int. Cl.<sup>5</sup> ..... H04L 9/00

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

[58] Field of Search ..... 380/4, 123, 25

### References Cited

#### U.S. PATENT DOCUMENTS

4,780,821	10/1988	Crossley	364/200
4,791,565	12/1988	Dunham et al.	364/200
4,924,378	5/1990	Hershey et al.	364/200
4,937,863	1/1990	Robert et al.	380/4
5,023,907	6/1991	Johnson et al.	380/4
5,109,413	4/1992	Comerford et al.	380/4
5,138,712	8/1992	Corbin	380/4

#### OTHER PUBLICATIONS

Wyman, "Future Directions in Digital Distributed Software License Architecture", Oral presentation, DECUS (Digital Equipment Computer User Society), Marlboro, Mass., May 10, 1990, 18 pages.

Primary Examiner—Salvatore Giangialosi

Attorney, Agent, or Firm—Arnold, White & Durkee

### [57] ABSTRACT

A distributed computer system employs a license man-

agement system to account for software product usage. A management policy having a variety of alternative styles and contexts is provided. Each licensed product upon start-up makes a call to a license server to check on whether usage is permitted, and the license server checks a database of the licenses, called product use authorizations, that it administers. If the particular use requested is permitted, a grant is returned to the requesting user node. The product use authorization is structured to define a license management policy allowing a variety of license alternatives by values called "style", "context", "duration" and "usage requirements determination method". The license administration may be delegated by the license server to a subsection of the organization, by creating another license management facility duplicating the main facility. The license server must receive a license document (a product use authorization) from an issuer of licenses, where a license document generator is provided. A mechanism is provided for one user node to make a call to use a software product located on another user node; this is referred to as a "calling card", by which a user node obtains permission to make a procedure call to use a program on another node. A management interface allows a license manager at a server to modify the license documents in the database maintained by the server, within the restraints imposed by the license, to make delegations, assignments, etc. The license documents are maintained in a standard format referred to as a license document interchange format so the management system is portable and can be used by all adhering software vendors. A feature of the database management is the use of a filter function.

31 Claims, 18 Drawing Sheets

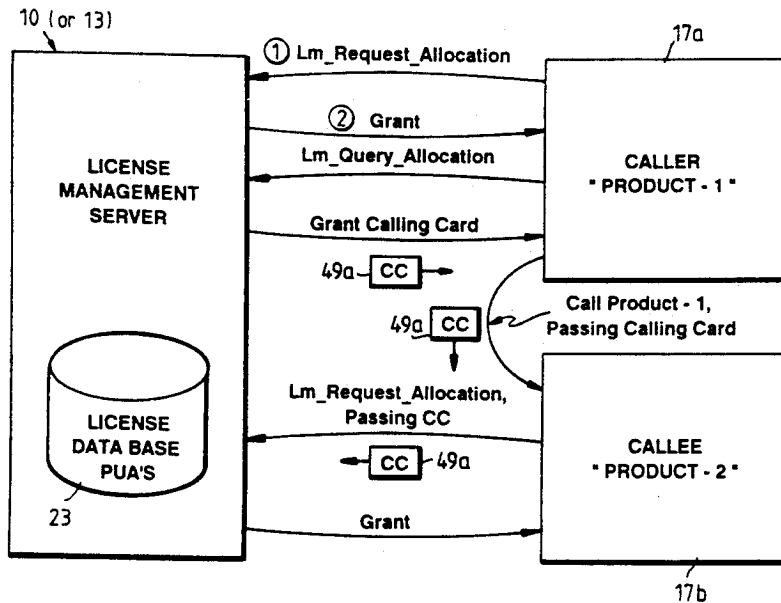
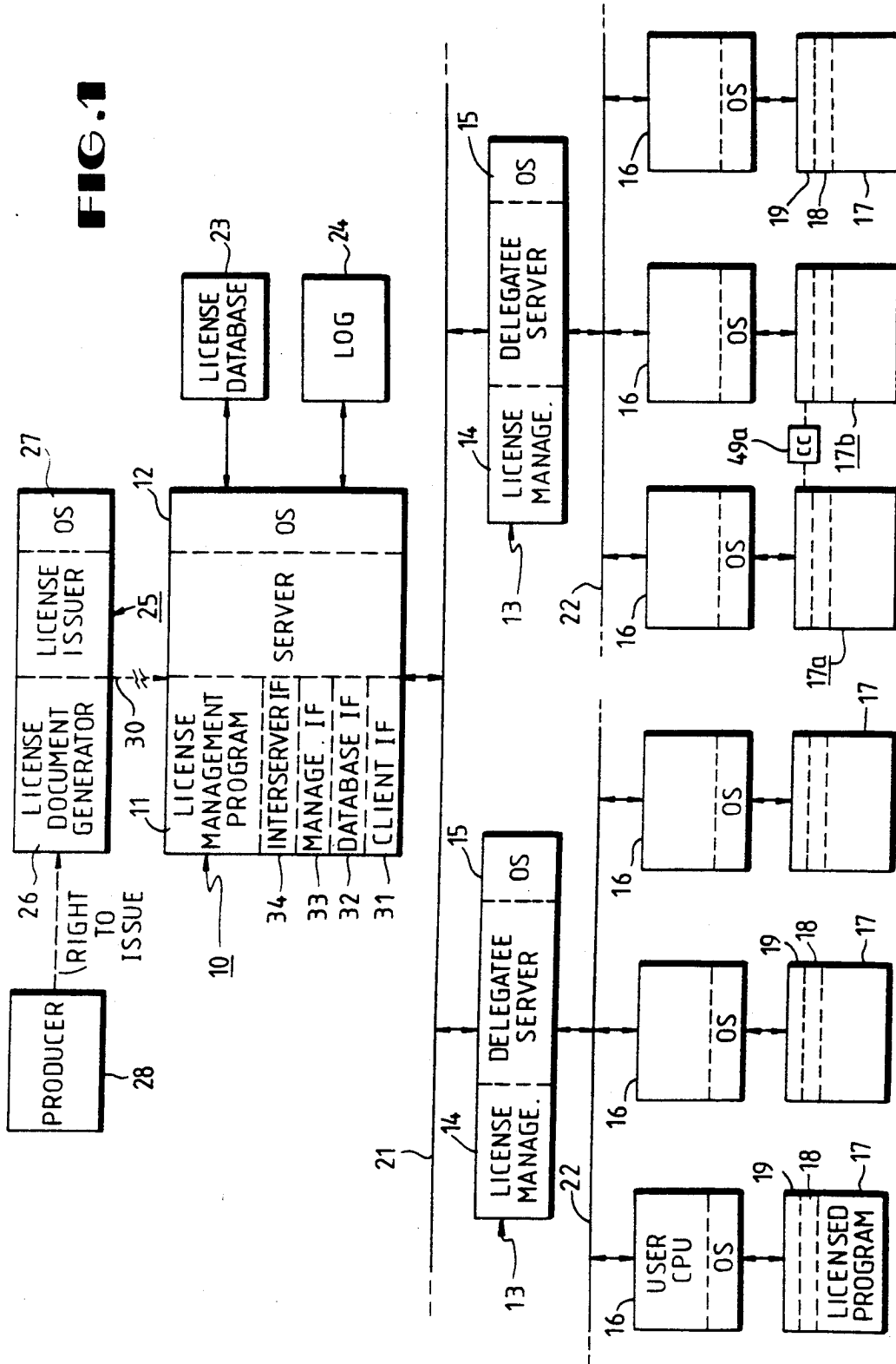
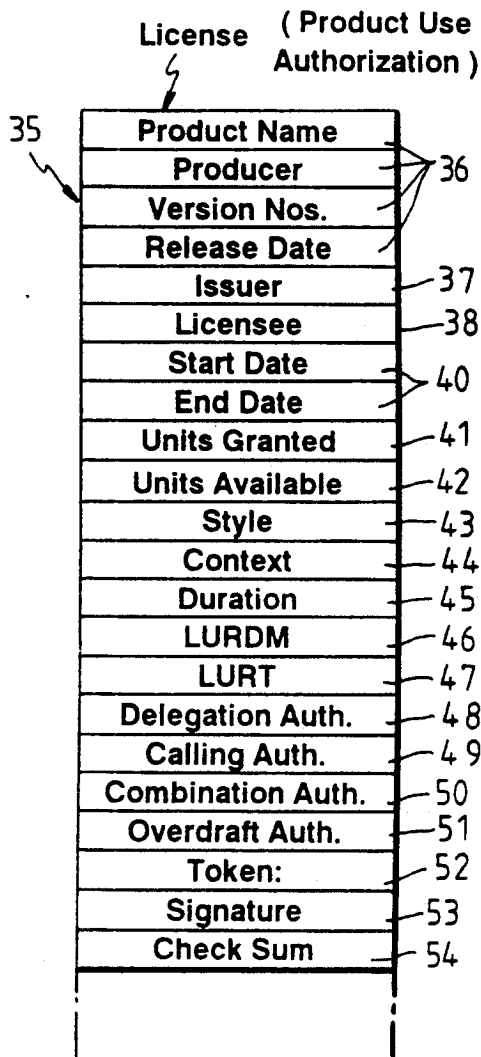


FIG. 1





License Unit Requirements Table			
Row Selector	Columns		
Platform ID	A	B	C
PC-0	10	230	-1
PC-1	12	230	-1
VAX 6210	158	300	150

FIG. 4

43	44	45	46
Style	Context	Duration	LURDM
Allocative	Network	Transaction	Constant
Consumptive	Execution_Domain	Assignment	Table Lookup
Private	Login_Domain	Immediate	Private
	Node_ID		
	Process_Family		
	Process		
	User_Name		
	Product_Name		
	Operating_System		
	Platform_ID		
	Private		

FIG. 3

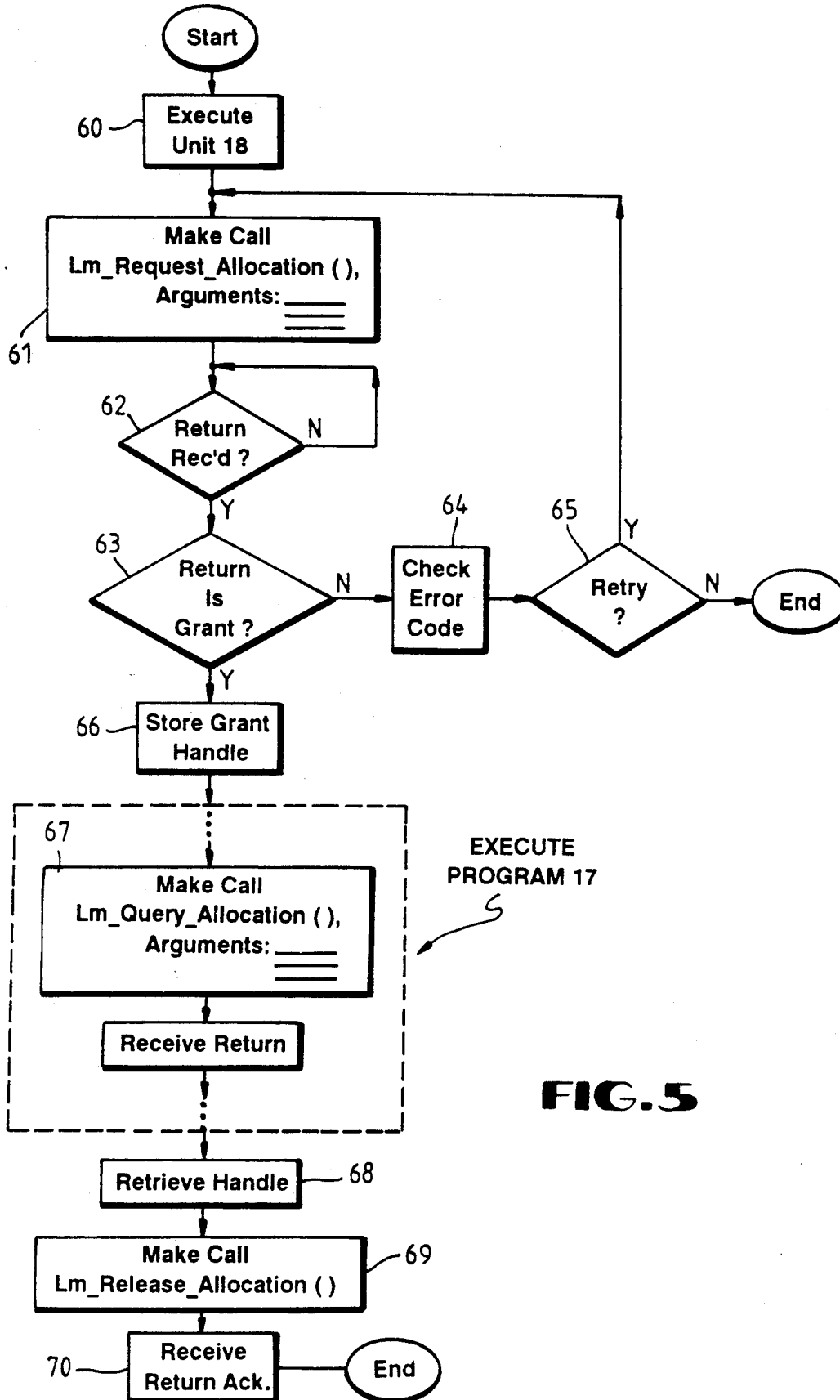


FIG. 5

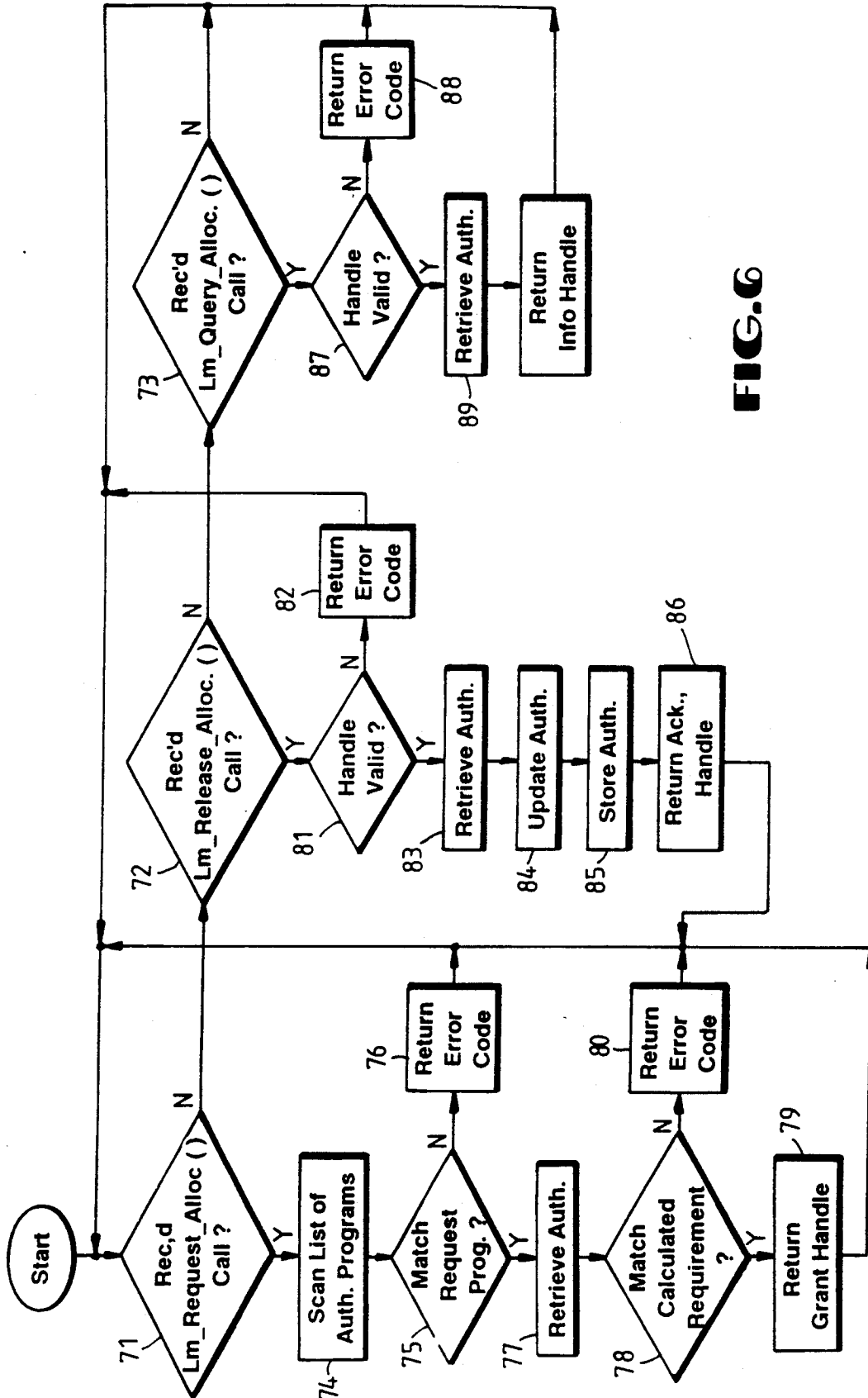


FIG. 6

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