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**Garst et al.**

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- (54) **METHOD AND APPARATUS FOR ENFORCING SOFTWARE LICENSES**
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- (73) Assignee: **Apple Computer, Inc.**, Cupertino, CA (US)
- (\*) Notice: Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.
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- (51) **Int. Cl.<sup>7</sup>** ..... **G06F 17/60**
- (52) **U.S. Cl.** ..... **705/59; 705/50; 705/51; 705/57; 705/58; 380/201; 380/202**
- (58) **Field of Search** ..... **705/1, 50-52, 705/57-59; 380/4, 201, 202**

0778512 6/1997 (EP) .  
9714087 4/1997 (WO) .

**OTHER PUBLICATIONS**

Yamada, Ken; Clamping down on pirates; Computer Reseller News n690 pp. 3; Jul. 1, 1996.\*

\* cited by examiner

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(57) **ABSTRACT**

The present invention comprises a method and apparatus for enforcing software licenses for resource libraries such as an application program interface (API), a toolkit, a framework, a runtime library, a dynamic link library (DLL), an applet (e.g. a Java or ActiveX applet), or any other reusable resource. The present invention allows the resource library to be selectively used only by authorized end user software programs. The present invention can be used to enforce a "per-program" licensing scheme for a resource library whereby the resource library is licensed only for use with particular software programs. In one embodiment, a license text string and a corresponding license key are embedded in a program that has been licensed to use a resource library. The license text string and the license key are supplied, for example, by a resource library vendor to a program developer who wants to use the resource library with an end user program being developed. The license text string includes information about the terms of the license under which the end user program is allowed to use the resource library. The license key is used to authenticate the license text string. The resource library in turn is provided with means for reading the license text string and the license key, and for determining, using the license key, whether the license text string is authentic and whether the license text string has been altered. Resource library functions are made available only to a program having an authentic and unaltered license text string.

(56) **References Cited**

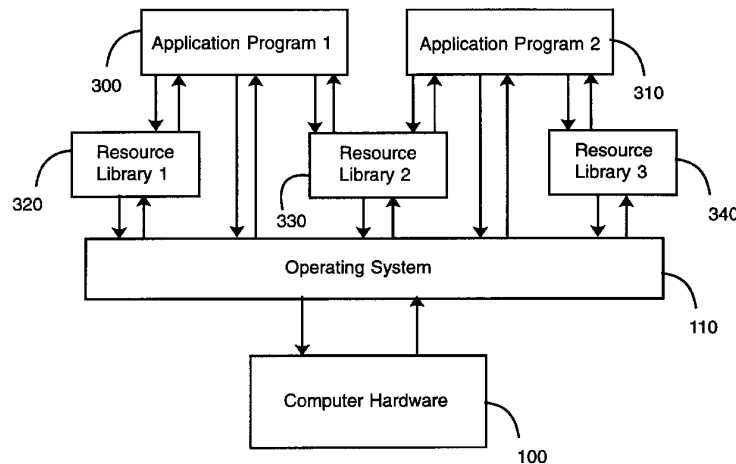
**U.S. PATENT DOCUMENTS**

4,924,378	*	5/1990	Hershey et al.	364/200
5,023,907	*	6/1991	Johnson et al.	380/4
5,287,408	*	2/1994	Samson	380/4
5,343,527	*	8/1994	Moore	380/4
5,412,717	*	5/1995	Fischer	380/4
5,438,508	*	8/1995	Wyman	364/401
5,592,549	*	1/1997	Nagel et al.	380/4
5,606,609	*	2/1997	Houser et al.	380/4
5,666,411	*	9/1997	McCarty	380/4
5,673,316	*	9/1997	Auerbach et al.	380/4
5,745,879	*	4/1998	Wyman	705/1
5,757,914	*	5/1998	McManis	380/23
5,802,591	*	9/1998	Yachida	711/164
5,822,739	*	10/1998	Kara	705/410

**FOREIGN PATENT DOCUMENTS**

0570123	11/1993	(EP)	.
0667572	8/1995	(EP)	.
0735488	* 10/1996	(EP)	..... 12/14

**75 Claims, 12 Drawing Sheets**



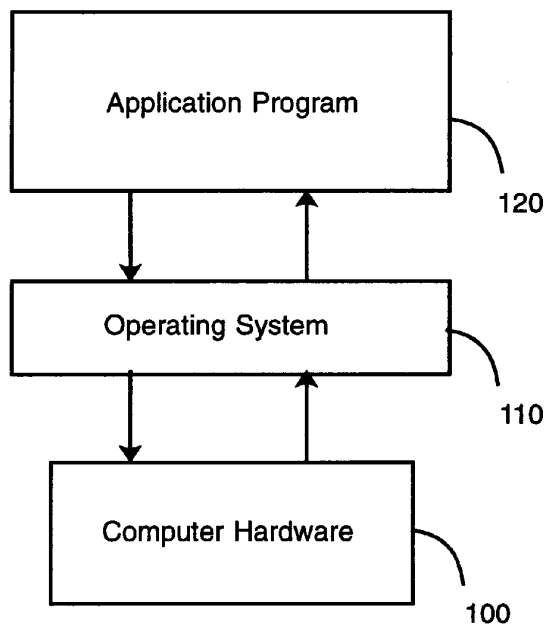


FIG. 1

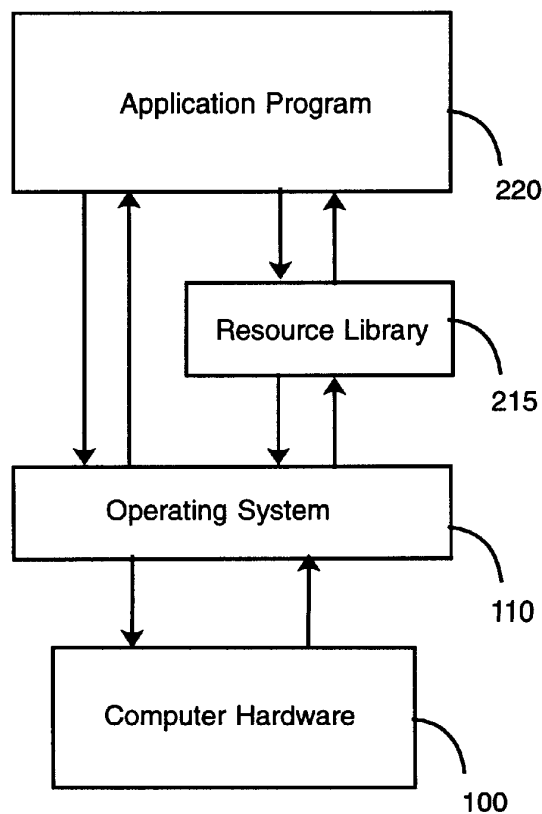


FIG. 2

FIG. 3

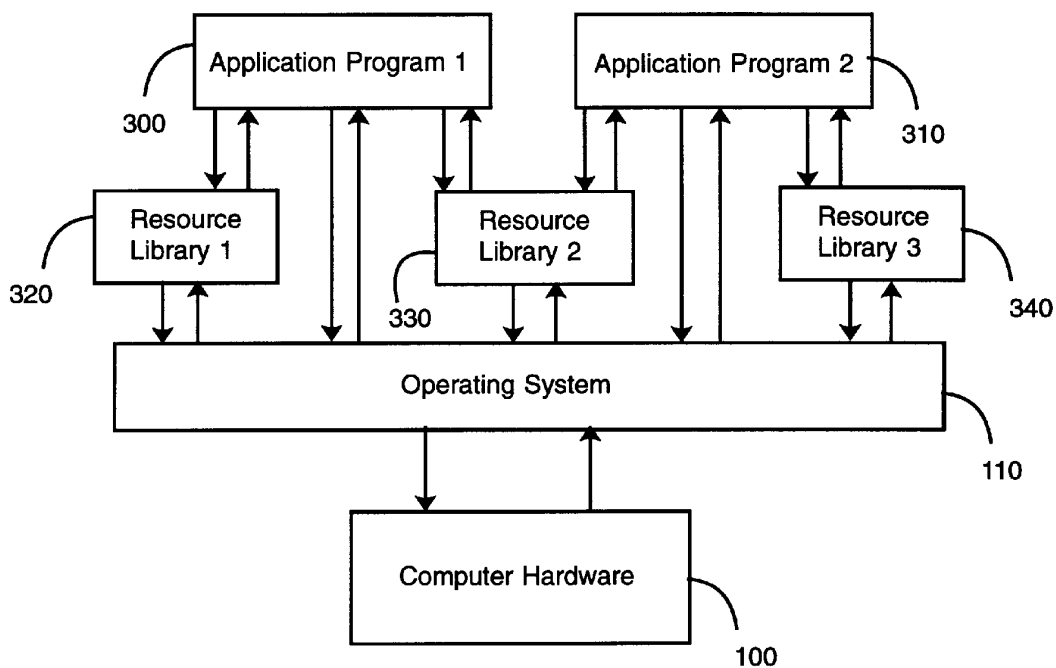
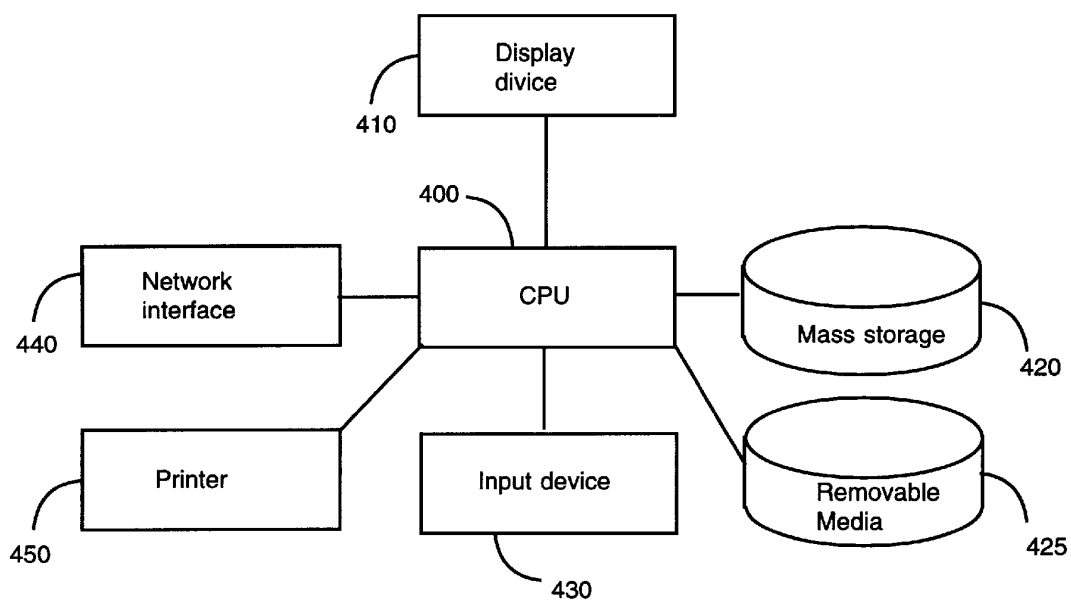


FIG. 4



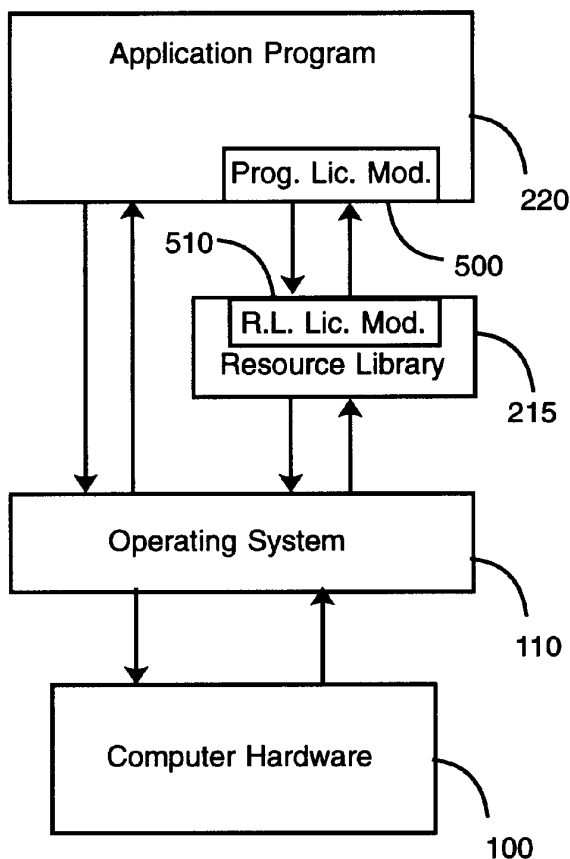


FIG. 5

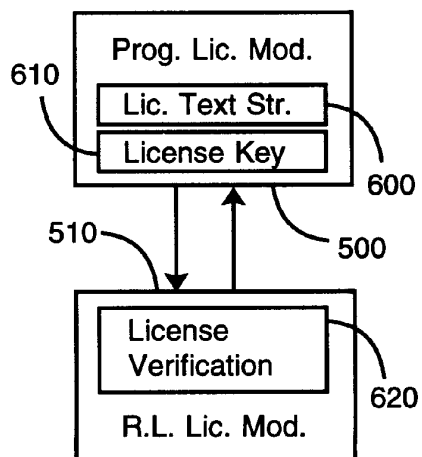


FIG. 6

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