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(54) **SECURITY SYSTEM DATABASE MANAGEMENT**

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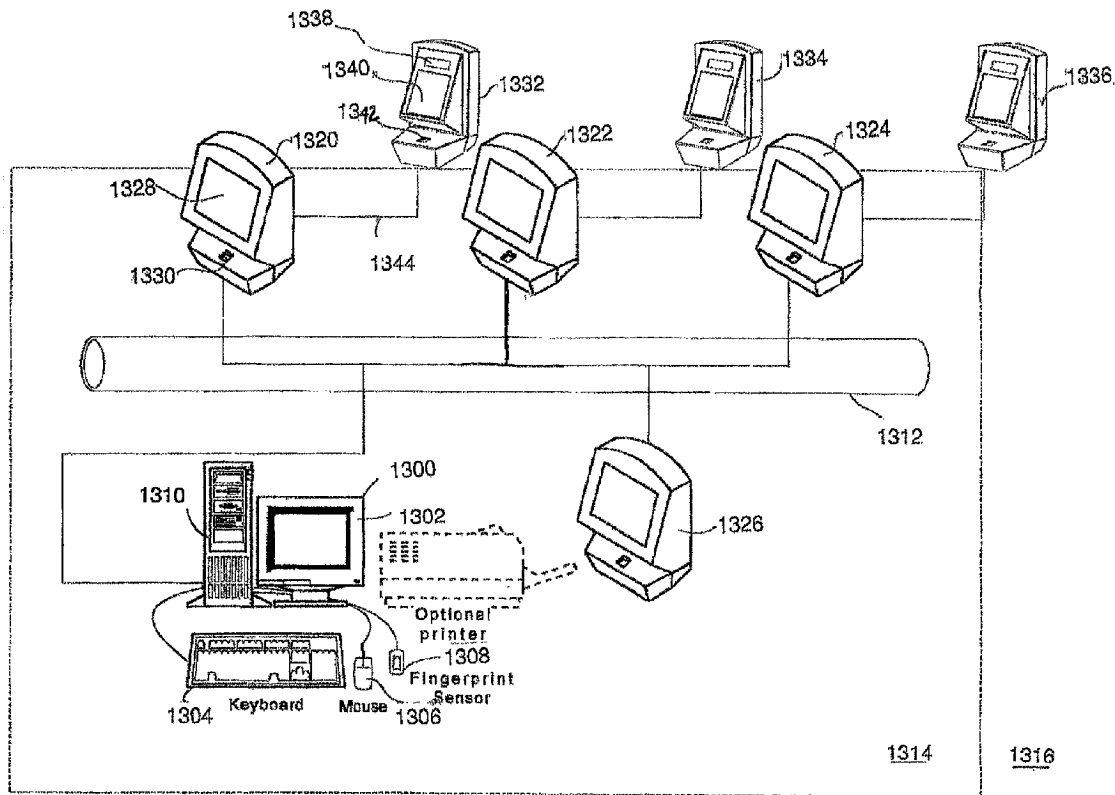
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(57) **ABSTRACT**

A security system database is configured to store a unique identifier and a biometrics feature for each user's. This information is periodically transferred from a central server to a plurality of access controllers. The access controllers in turn control building access based upon the information received from the central server. The access data is in turn periodically transferred from the access controllers to the central server. The central server uses this information to generate access reports.

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102 ↓	104 ↓	106 ↓
#	Network ID	Name
1	10:10:01	South Parking Lot Entry
2	10:10:02	Main Gate
· · ·	· · ·	· · ·
N	10:10:N	Other Entry

(Database of Access Points)

Fig. 1

202 ↓	204 ↓	206 ↓	208 ↓	210 ↓	212 ↓	214 ↓
#	Name	A.P.1	A.P.2	A.P.3	A.P.4	A.P.M
1	Basic	1	0	0	1	X
2	Software	1	0	1	0	X
· · ·	· · ·	· · ·	· · ·	· · ·	· · ·	· · ·
N	Other	X	X	X	X	X

(Database of Access Groups)

Fig. 2

302	304	
↓	↓	
#	Name	
1	Engineering	
2	Marketing	
3	Administration	
4	Software	
.	.	
.	.	
.	.	
N	Others	

(Database of Departments)

Fig. 3

402	404	
↓	↓	
#	Name	
1	Exempt	
2	Non-Exempt	
.	.	
.	.	
.	.	
N	Others	

(Database of Groups)

Fig. 4

502	504	506	508
↓	↓	↓	↓
#	Name	Time Frame	Account Disabled
1	Visitor	0	0
2	Temporary Leave	1	1
3	Voluntary Leave	0	1
4	Termination	0	1
5	Active	0	0
N	Others	1	1

(Database of Employment Status Options)

Fig. 5

602	604	606	608
↓	↓	↓	↓
#	Name	T/A Group	Time Frame
1	Full Time A	In / Out	0
2	Full Time B	4 In / 4 Out	0
3	Part Time	2 In / 2 Out	0
4	Seasonal	3 In / 3 Out	1
5	Visitor	In / Out	1

(Database of Employment Type Options)

Fig. 6

702	704	706	708	710	712	714	716	718	720	722	724
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
#	Name	Enroll	Update	Delete	DB	Sched- uler	Admin. Reports	T/A Reports	T/A Edit	Video Report	Info Report
1	User	0	0	0	0	0	0	0	0	0	0
2	DB Manger	1	1	1	1	1	1	1	1	1	1
3	Administrator	1	1	1	0	1	1	1	1	1	1
4	Enroll Clerk	1	1	0	0	0	0	0	0	0	0
5	Reports Clerk	0	0	0	0	0	1	1	1	1	1

(Database of Access Priviliges)

Fig. 7

802	804	806	808	810	812	814	816	818	820	822	824
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
#	Name	Employ. Number	PID	Dept.	Employ. Type	End Date	Employ. Status	Leave Date	DB Rights	Report Group	Other
1	A. Rivera	1	1776	Eng.	F.T. A	-	Active	-	User	Exempt	0
2	M. Berrios	2	9999	Soft.	F.T. B	-	Active	-	Admin.	Exempt	1
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
N	Others										

(Database of Users)

Fig. 8

902	904	906	908	910	912	914	916	922	
↓	↓	↓	↓	↓	↓	↓	↓	↓	
#	Employ. Number	A.G. 1	A.G. 2	A.G. 3	A.G. 4	A.G. 5	A.G. 6	. . .	A.G. N
1	1	1	1	0	1	0	0	. . .	0
2	2	1	0	0	0	0	0	. . .	0
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
N	N	0	0	0	0	1	1	. . .	1

(Database of Users' Access Groups)

Fig. 9

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