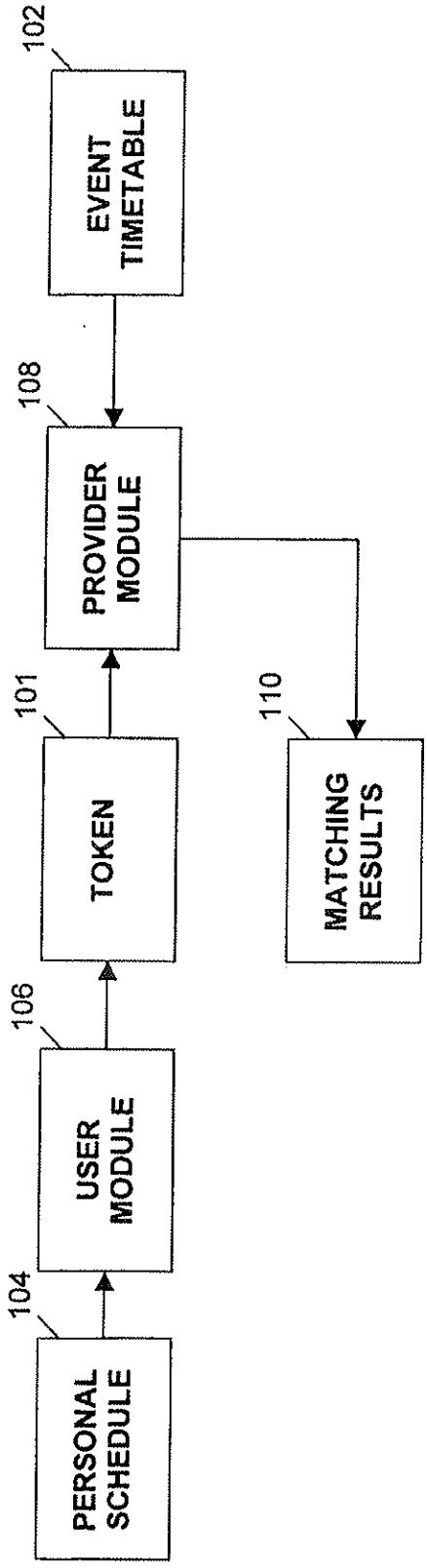

102
EVENT TIMETABLE
108
PROVIDER MODULE
101
TOKEN
110
MATCHING RESULTS
106
USER MODULE
104
PERSONAL SCHEDULE

FIG. 1

Category	Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
8 Bits	8 Bits	8 Bits	8 Bits	8 Bits	8 Bits	8 Bits	8 Bits	8 Bits
71 64	63 56	55 48	47 40	39 32	31 24	23 16	15 8	7 0

FIG. 2

Day							
Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
8.00am to 10.00am	10.00am to 12.00pm	12.00pm to 2.00pm	2.00pm to 4.00pm	4.00pm to 6.00pm	6.00pm to 8.00pm	8.00pm to 12.00am	12.00am to 8.00am

FIG. 3

Week							
Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
RESERVED Bits			5 bits used to indicate the number of weeks relative to the current week. Can specify 31 weeks from the current week.				

FIG. 4

Category							
Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
8 bits for categorization							

FIG. 5

Byte 8	Byte 7	Byte 6	Byte 5	Byte 4	Byte 3	Byte 2	Byte 1	Byte 0
9 bytes of BINARY data is compressed into 12 symbols (6-Bit SYMBOL)								

Sym 11	Sym 10	Sym 9	Sym 8	Sym 7	Sym 6	Sym 5	Sym 4	Sym 3	Sym 2	Sym 0	Sym 0

FIG. 6

Symbol	Decimal	Binary
#	0	000000
*	1	000001
0	2	000010
1	3	000011
2	4	000100
3	5	000101
4	6	000110
5	7	000111
6	8	001000
7	9	001001
8	10	001010
9	11	001011
A	12	001100
B	13	001101
C	14	001110
D	15	001111
E	16	000000
F	17	010001
G	18	010010
H	19	010011
I	20	010100
J	21	010101
K	22	010110
L	23	010111
M	24	011000
N	25	011001
O	26	011010
P	27	011011
Q	28	011100
R	29	011101
S	30	011110
T	31	011111

Symbol	Decimal	Binary
U	32	100000
V	33	100001
W	34	100010
X	35	100011
Y	36	100100
Z	37	100101
a	38	100110
b	39	100111
c	40	101000
d	41	101001
e	42	101010
f	43	101011
g	44	101100
h	45	101101
i	46	101110
j	47	101111
k	48	100000
l	49	110001
m	50	110010
n	51	110011
o	52	110100
p	53	110101
q	54	110110
r	55	110111
s	56	111000
t	57	111001
u	58	111010
v	59	111011
w	60	111100
x	61	111101
y	62	111110
z	63	111111

FIG. 7

Byte 8	Byte 7	Byte 6	Byte 5	Byte 4	Byte 3	Byte 2	Byte 1	Byte 0
01111111	01001000	00101010	11001100	00110001	00000101	00011000	01111010	10101001
9 bytes of BINARY data is compressed into 12 symbols (6-Bit SYMBOL)								
011111	110100	100000	101010	110011	000011	000100	000101	000110	000111	101010	101001
T	O	K	E	n	1	2	3	4	5	e	d
Sym 11	Sym 10	Sym 9	Sym 8	Sym 7	Sym 6	Sym 5	Sym 4	Sym 3	Sym 2	Sym 1	Sym 0

FIG. 8A

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8am-10am	0 (Available)	1 (Busy)	0 (Available)	0 (Available)	0 (Available)	0 (Available)	1 (Busy)
10am-12pm	0 (Available)	1 (Busy)	0 (Available)	0 (Available)	0 (Available)	1 (Busy)	0 (Available)
12pm-2pm	1 (Busy)	0 (Available)	1 (Busy)	0 (Available)	0 (Available)	1 (Busy)	1 (Busy)
2pm-4pm	0 (Available)	0 (Available)	1 (Busy)	0 (Available)	1 (Busy)	1 (Busy)	0 (Available)
4pm-6pm	1 (Busy)	1 (Busy)	0 (Available)	0 (Available)	1 (Busy)	1 (Busy)	1 (Busy)
6pm-8pm	0 (Available)	1 (Busy)	0 (Available)	1 (Busy)	0 (Available)	0 (Available)	0 (Available)
8pm-12am	1 (Busy)	0 (Available)	0 (Available)	0 (Available)	0 (Available)	1 (Busy)	0 (Available)
12am-8am	0 (Available)	0 (Available)	1 (Busy)	1 (Busy)	0 (Available)	0 (Available)	1 (Busy)

FIG. 8B

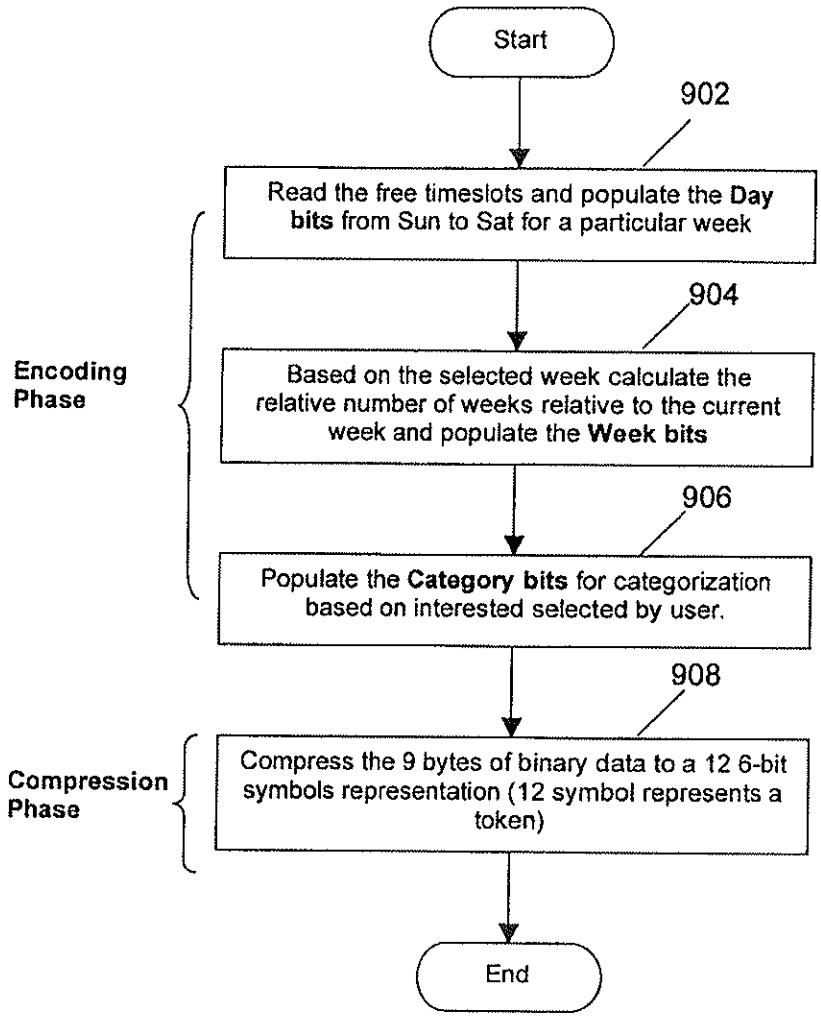

Start
902
Read the free timeslots and populate the Day bits from Sun to Sat for a particular week
904
Based on the selected week calculate the relative number of weeks relative to the current week and populate the Week bits
906
Populate the Category bits for categorization based on interested selected by user.
908
Compress the 9 bytes of binary data to a 12 6-bit symbols representation (12 symbol represents a token)
End
Encoding Phase
Compression Phase

FIG. 9A

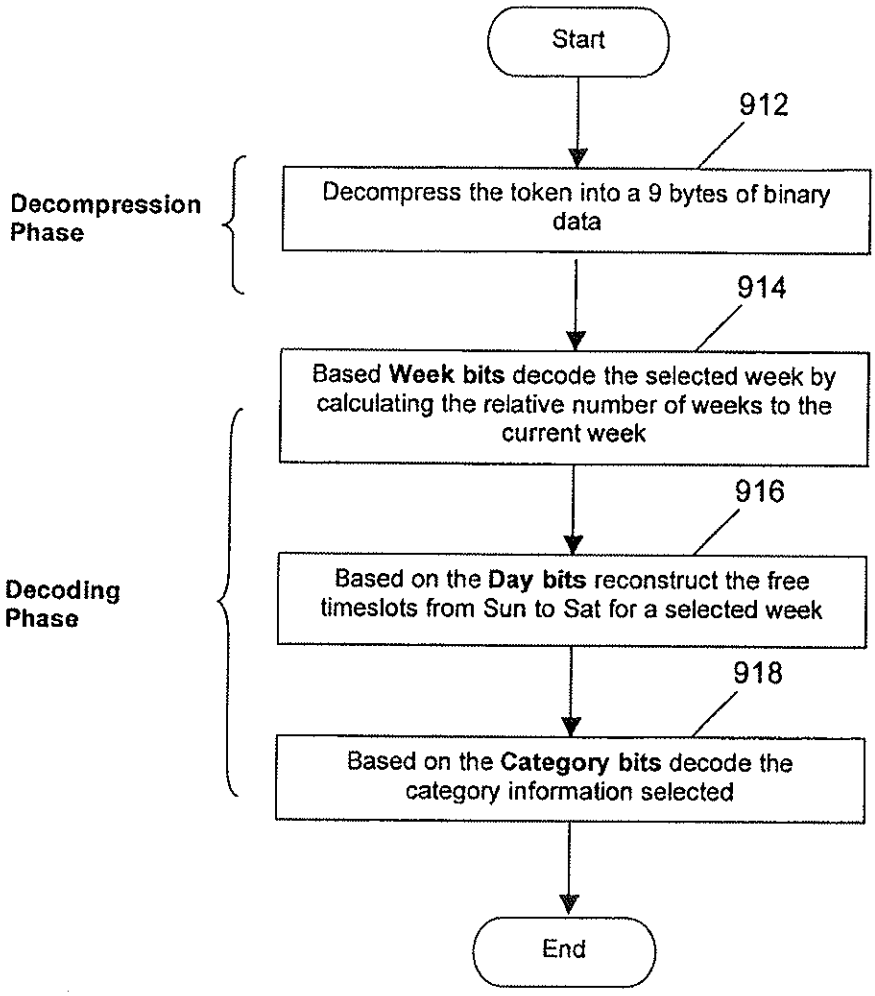

Start
912
Decompression Phase
Decompress the token into a 9 bytes of binary data
914
Based Week bits decode the selected week by calculating the relative number of weeks to the current week
916
Decoding Phase
Based on the Day bits reconstruct the free timeslots from Sun to Sat for a selected week
918
Based on the Category bits decode the category information selected
End

FIG. 9B