

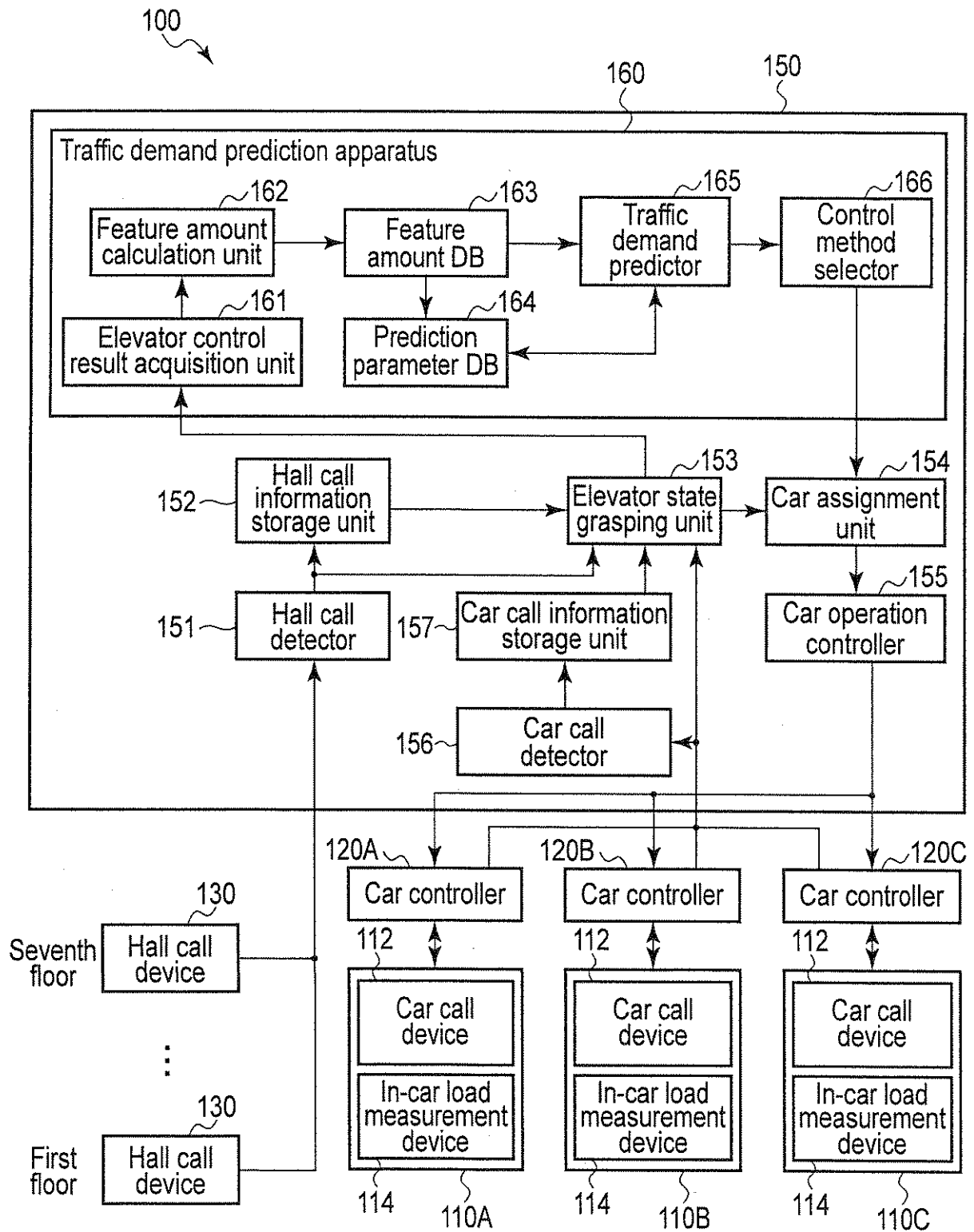


FIG. 1

	First floor	Second floor	Third floor	Fourth floor	Fifth floor	Sixth floor	Seventh floor
First floor	0	1	1	1	1	1	1
Second floor	54	0	1	1	1	1	1
Third floor	54	1	0	1	1	1	1
Fourth floor	54	1	1	0	1	1	1
Fifth floor	54	1	1	1	0	1	1
Sixth floor	54	1	1	1	1	0	1
Seventh floor	54	1	1	1	1	1	0

FIG. 2

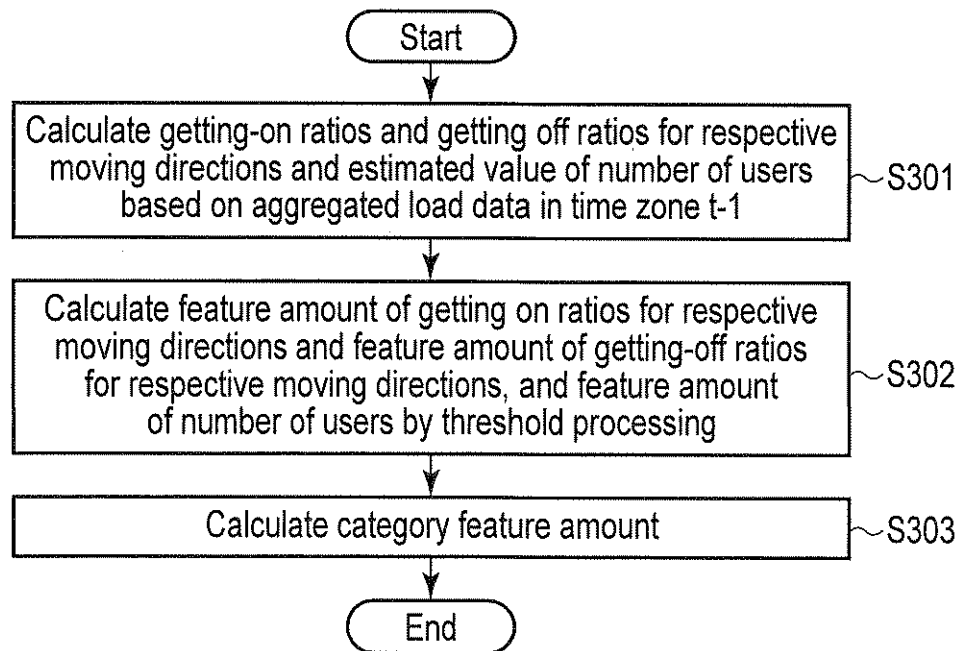


FIG. 3

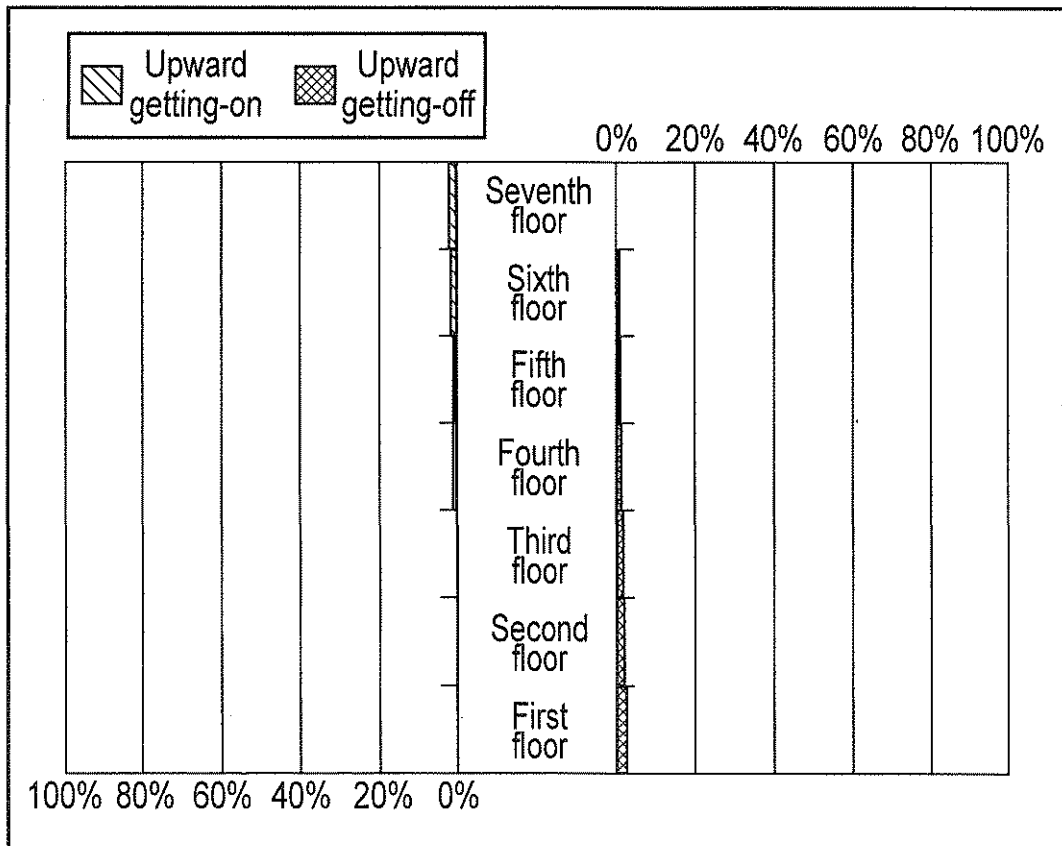
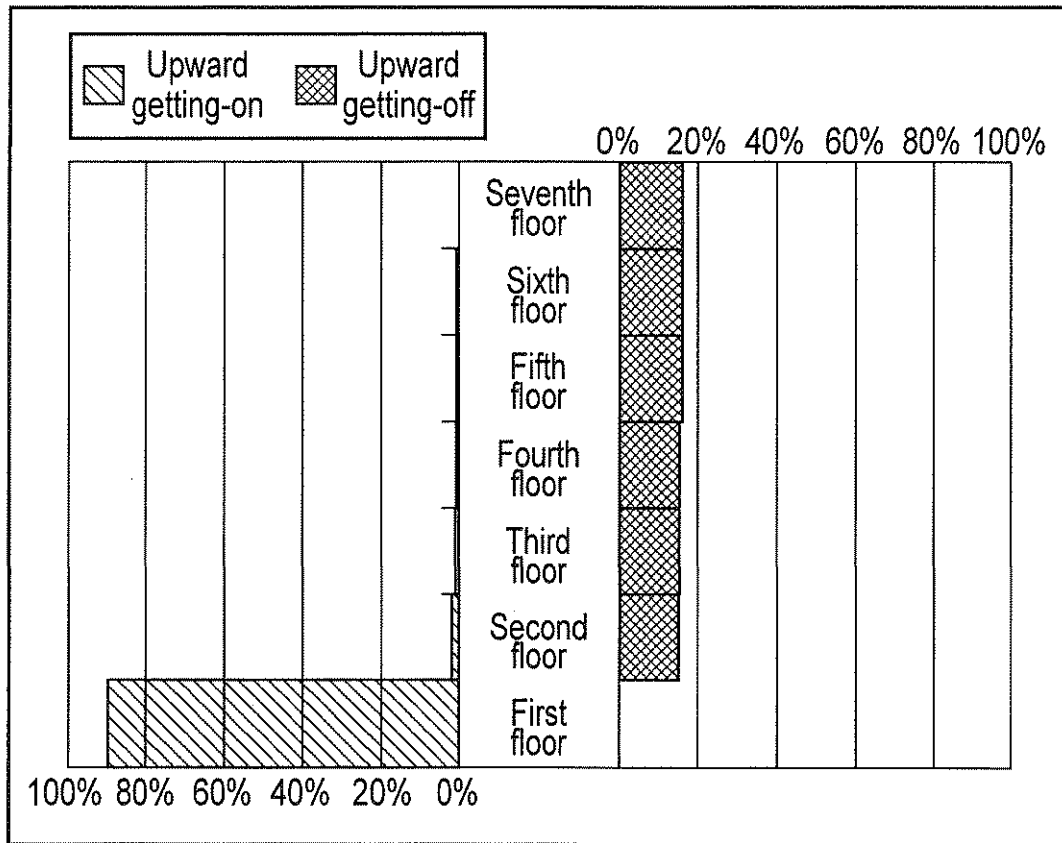


FIG. 4

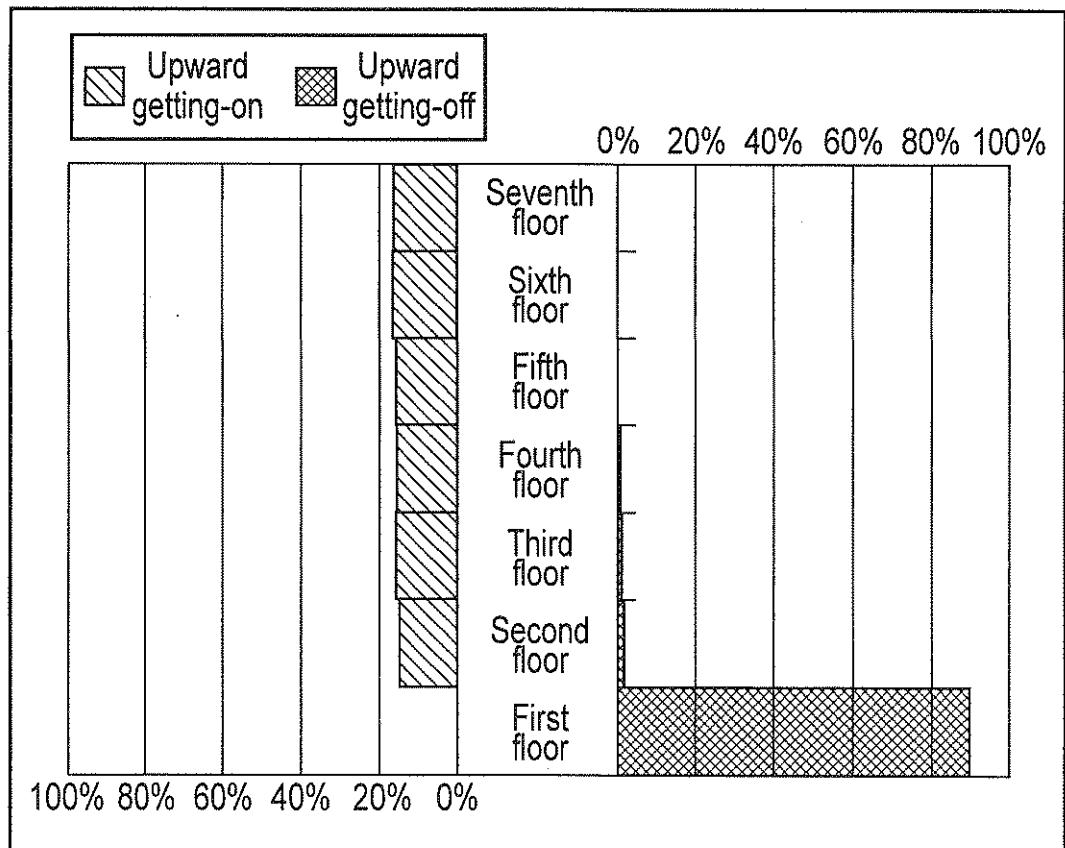
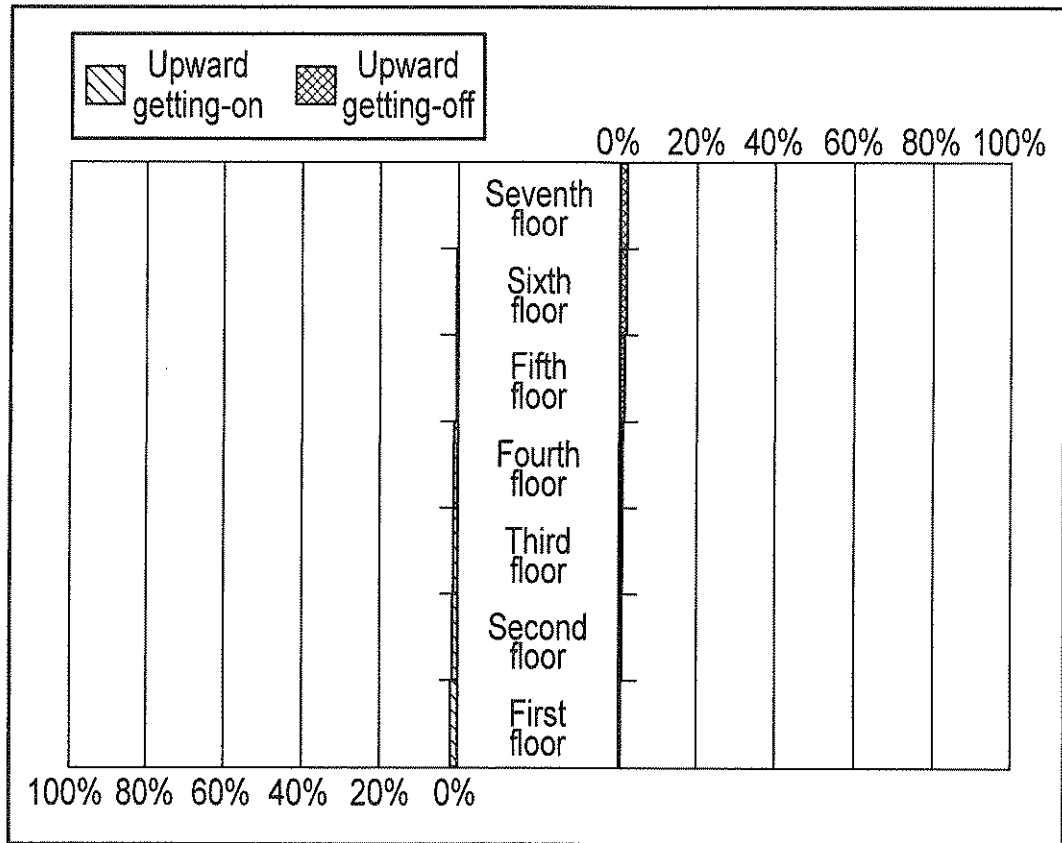


FIG. 5

Number of users per hour	Number of users per 5 min	Range N for number of users per 5 min	Feature amount of number of users = $\lfloor N/25 \rfloor$
300	25	$0 \leq N < 25$	0
600	50	$25 \leq N < 50$	1
900	75	$50 \leq N < 75$	2
1200	100	$75 \leq N < 100$	3
1500	125	$100 \leq N < 125$	4
1800	150	$125 \leq N < 150$	5
2100	175	$150 \leq N < 175$	6
2400	200	$175 \leq N < 200$	7
2700	225	$200 \leq N < 225$	8
3000	250	$225 \leq N < 250$	9
3300	275	$250 \leq N < 275$	10

FIG. 6

Number of elapsed days							7
Number of elapsed days							8
Number of elapsed days							9
Number of elapsed days							10
Date							2011/4/10
Day of week							Monday
Traffic demand feature amount							
Time	Upward getting-on ratio	Upward getting-off ratio	Downward getting-on ratio	Downward getting-off ratio	Number of users	Category	
:							
7:00-7:05	(1,0,0,0,0,0,0)	(0,0,0,0,0,0,0)	(0,0,0,0,0,0,0)	(0,0,0,0,0,0,0)	3	(1,0,0,0)	
7:05-7:10	(1,0,0,0,0,0,0)	(0,0,0,0,0,0,0)	(0,0,0,0,0,0,0)	(0,0,0,0,0,0,0)	4	(1,0,0,0)	
7:10-7:15	(1,0,0,0,0,0,0)	(0,0,0,0,0,0,0)	(0,0,0,0,0,0,0)	(1,0,0,0,0,0,0)	5	(1,0,0,1)	
:							

FIG. 7

Day of week Sunday				
Day of week Saturday				
Day of week Friday				
Day of week Thursday				
Day of week Wednesday				
Day of week Tuesday				
Day of week Monday				
Time	Expert1	Expert2	Expert3	Expert4
:				
7:00-7:05	0.25	0.25	0.25	0.25
7:05-7:10	0.2	0.4	0.3	0.1
7:10-7:15	0.7	0.1	0.1	0.1
:				

FIG. 8

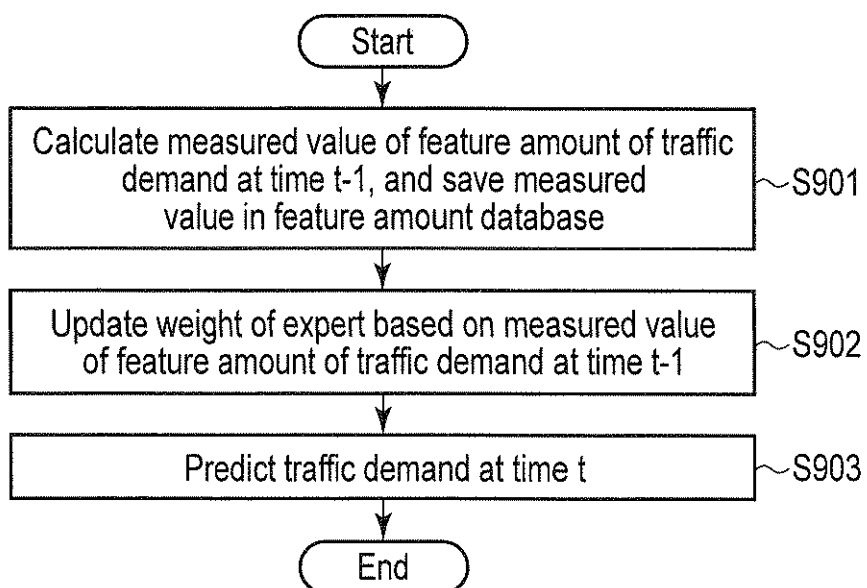


FIG. 9

Category	Control method candidate 1	Candidate 1 activation condition	Control method candidate 2	Candidate 2 activation condition
(0,0,0,0)	Distributed standby	Feature amount of number of users ≤ 2		
(0,0,0,1)	Distributed standby	Feature amount of number of users ≤ 2	Zoning	Feature amount of number of users ≥ 7
(0,0,1,0)	Distributed standby	Feature amount of number of users ≤ 2	Multiple-car assignment	Feature amount of number of users ≥ 6
(0,0,1,1)	Distributed standby	Feature amount of number of users ≤ 2	Multiple-car assignment	Feature amount of number of users ≥ 6
(0,1,0,0)	Distributed standby	Feature amount of number of users ≤ 2	Zoning	Feature amount of number of users ≥ 7
(0,1,0,1)	Distributed standby	Feature amount of number of users ≤ 2		
(0,1,1,0)	Distributed standby	Feature amount of number of users ≤ 2		
(0,1,1,1)	Distributed standby	Feature amount of number of users ≤ 2		
(1,0,0,0)	Distributed standby	Feature amount of number of users ≤ 2	Multiple-car assignment	Feature amount of number of users ≥ 6
(1,0,0,1)	Distributed standby	Feature amount of number of users ≤ 2		
(1,0,1,0)	Distributed standby	Feature amount of number of users ≤ 2		
(1,0,1,1)	Distributed standby	Feature amount of number of users ≤ 2		
(1,1,0,0)	Distributed standby	Feature amount of number of users ≤ 2	Multiple-car assignment	Feature amount of number of users ≥ 6
(1,1,0,1)	Distributed standby	Feature amount of number of users ≤ 2		
(1,1,1,0)	Distributed standby	Feature amount of number of users ≤ 2		
(1,1,1,1)	Distributed standby	Feature amount of number of users ≤ 2		

FIG. 10

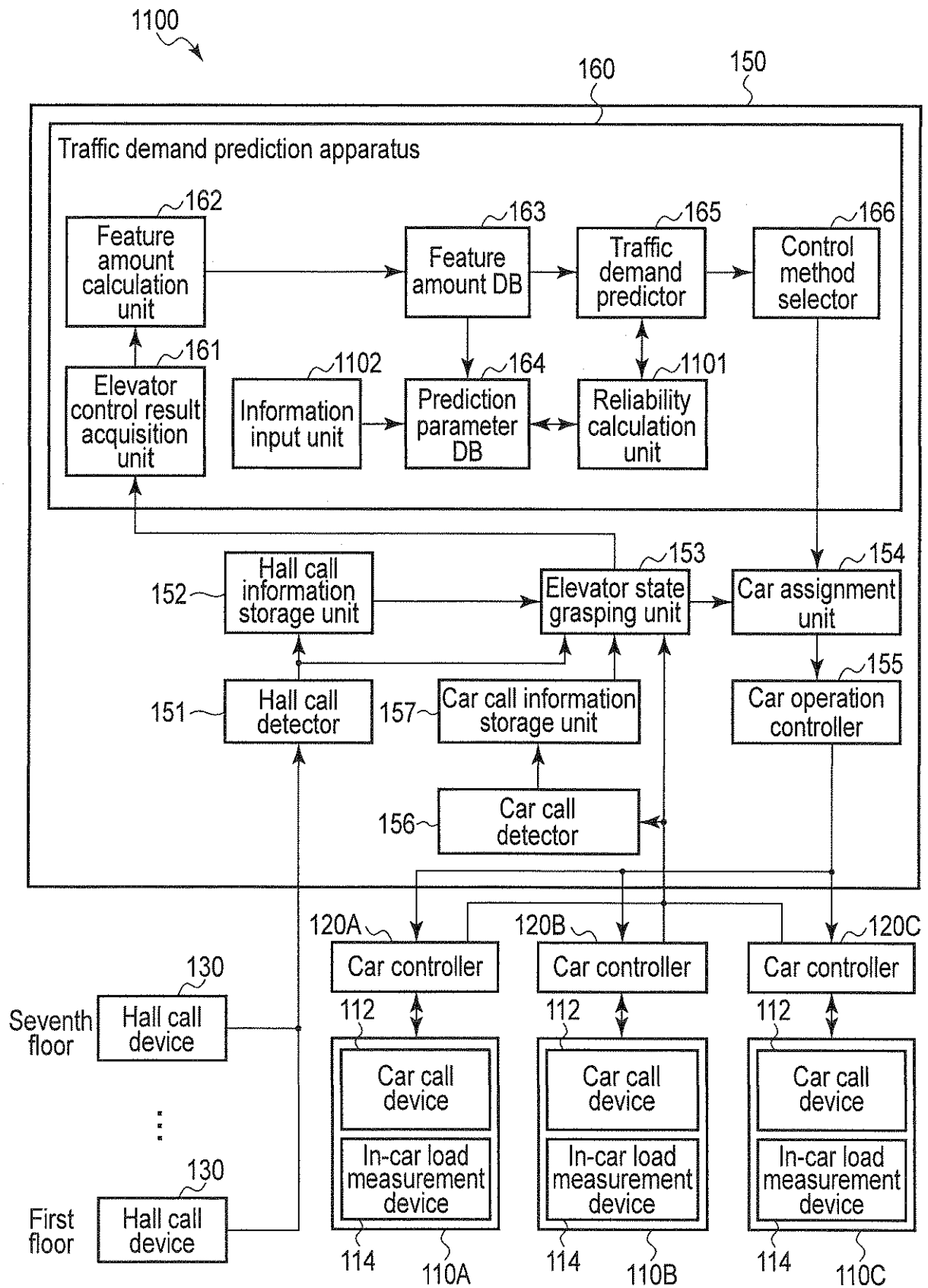


FIG. 11

Number of elapsed days		7				
Number of elapsed days		8				
Number of elapsed days		9				
Number of elapsed days		10				
Date		2011/4/10				
Day of week		Monday				
Prediction result						
Time	Expert1	Expert2	Expert3	Expert4	Final prediction expert	Prediction result
:						
7:00-7:05	○	○	○	○	1	○
7:05-7:10	○	○	○	○	1	○
7:10-7:15	×	○	○	○	2	○
:						

FIG.12

	Use data1	Use data2	Use data3	Number of data used to calculate reliability
Expert1	$D(t-3 d)$	$D(t-2 d)$	$D(t-1 d)$	5
Expert2	$D(t d-21)$	$D(t d-14)$	$D(t d-7)$	1
Expert3	$D(t+1 d-7)$	$D(t+2 d-7)$	$D(t+3 d-7)$	3
Expert4	$D(t d-1)$	$D(t d-2)$	$D(t d-3)$	3

FIG. 13

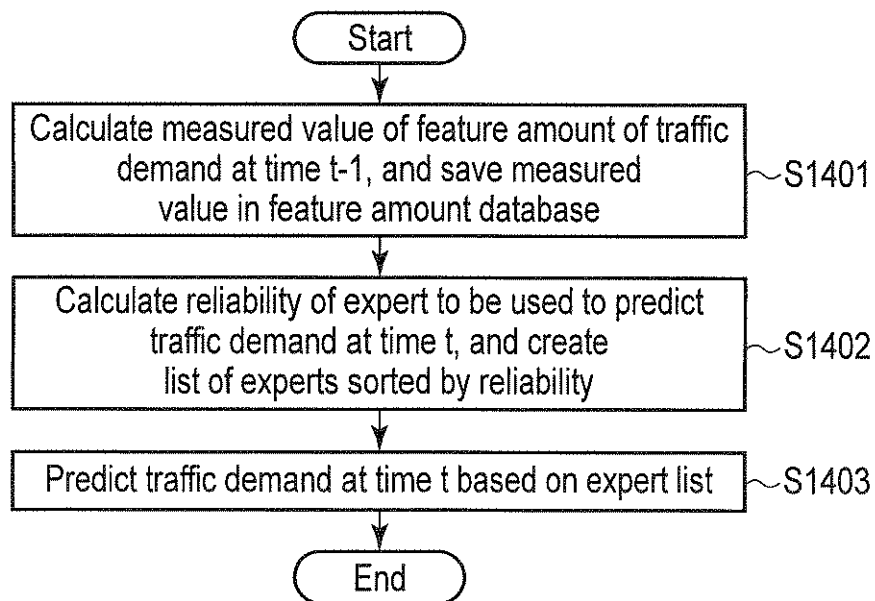


FIG. 14

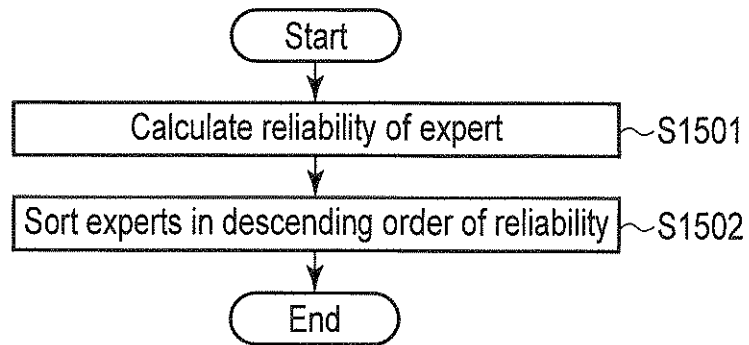


FIG. 15

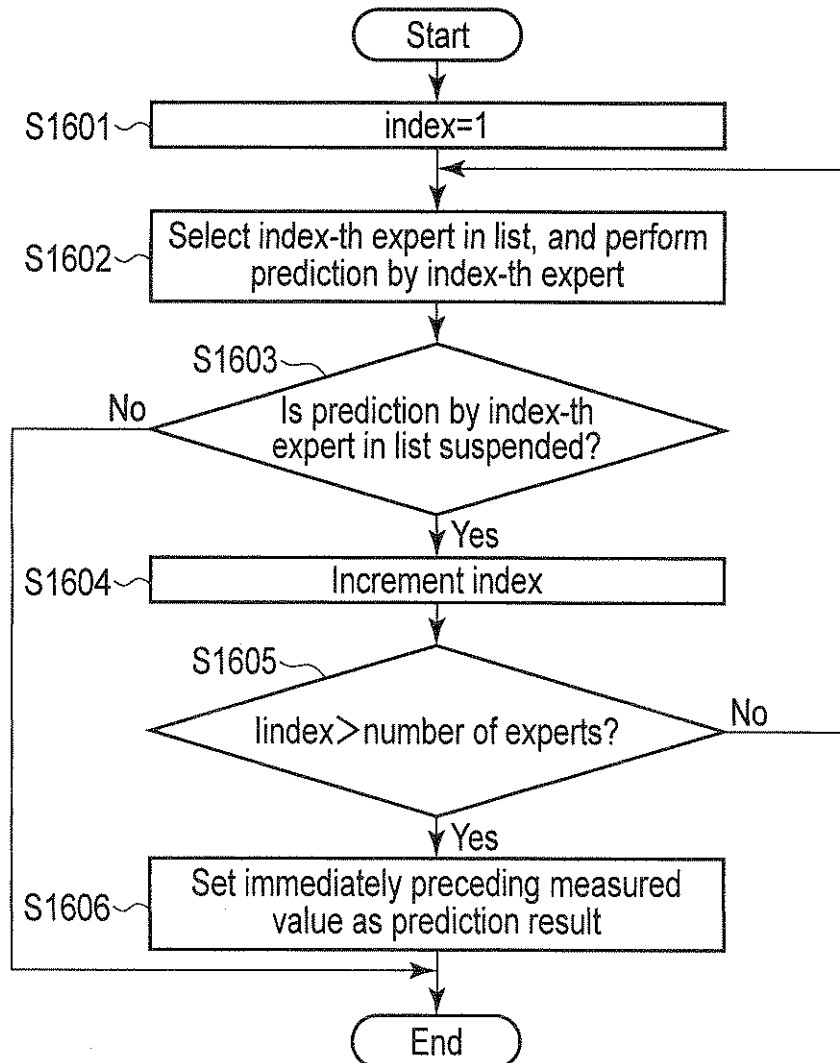


FIG. 16

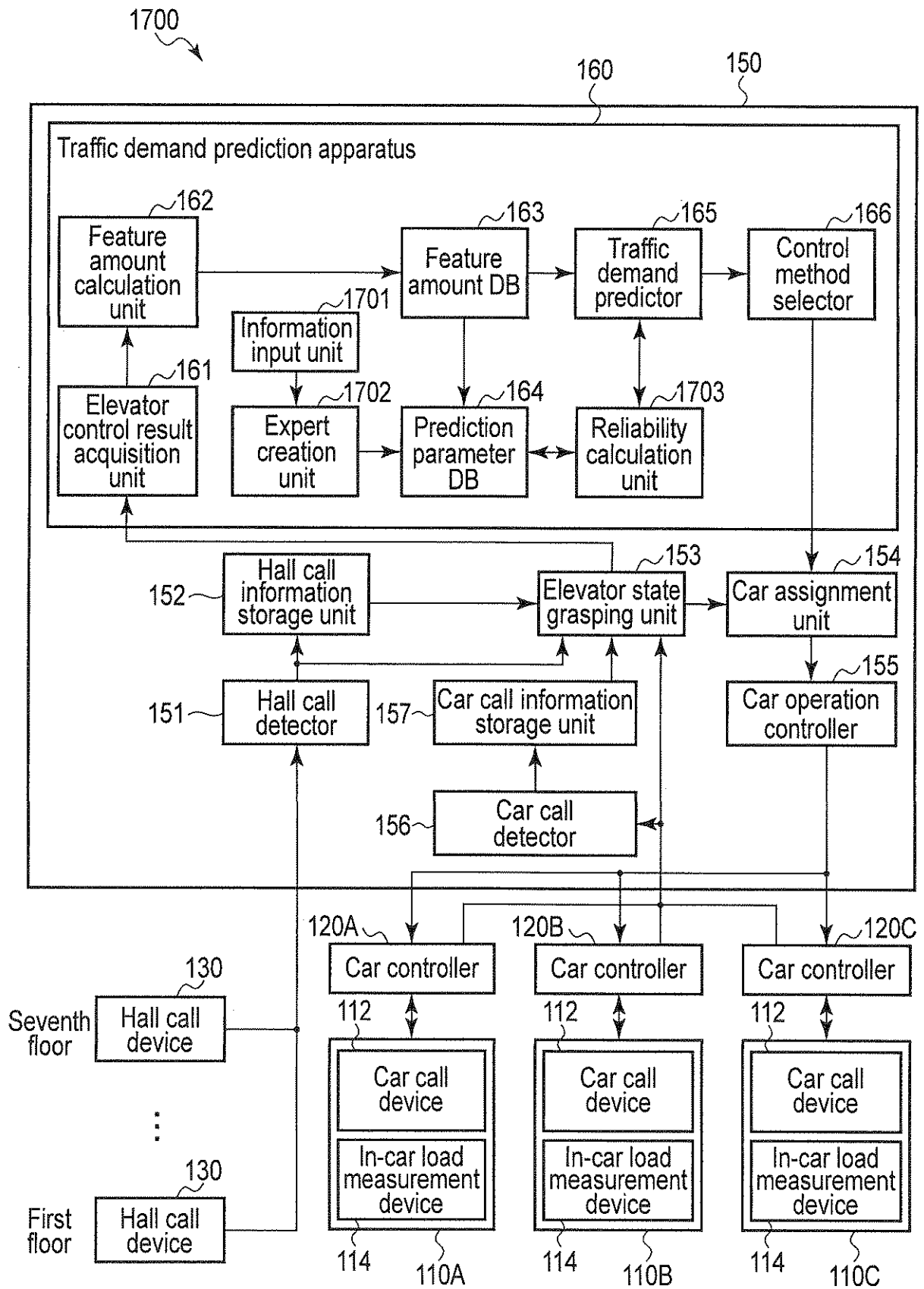


FIG. 17

week_num		weekend	working_day	
	Number	Weekday/ weekend		
Monday	1	0	Normal working day	1
Tuesday	2	0	Morning-off day	2
Wednesday	3	0	Afternoon-off day	3
Thursday	4	0	On-time leave day	4
Friday	5	0	Day off	5
Saturday	6	1	⋮	⋮
Sunday	7	1		

holiday	
Holiday and feast day	Other
1	0

FIG. 18

2011/4

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

1. Normal working day
2. Morning-off day
3. Afternoon-off day
4. On-time leave day
5. Day off

FIG. 19

Number	Attribute combination	Past time zone prediction	Current time zone prediction	Future time zone prediction
①	Case in which day of week, holiday/feast day, and working system are considered	3	3	3
②	Case in which weekday/weekend, holiday/feast day, and working system are considered	3	3	3
③	Case in which day of week and holiday/feast day are considered	5	5	5
④	Case in which day of week and working system are considered	3	3	3
⑤	Case in which weekday/weekend and holiday/feast day are considered	5	5	5
⑥	Case in which weekday/weekend and working system are considered	3	3	3
⑦	Case in which holiday/feast day and working system are considered	3	3	3
⑧	Case in which day of week is considered	5	5	5
⑨	Case in which holiday/feast day is considered	7	7	7
⑩	Case in which working system is considered	3	3	3

FIG. 20