

[Fig. 1A]

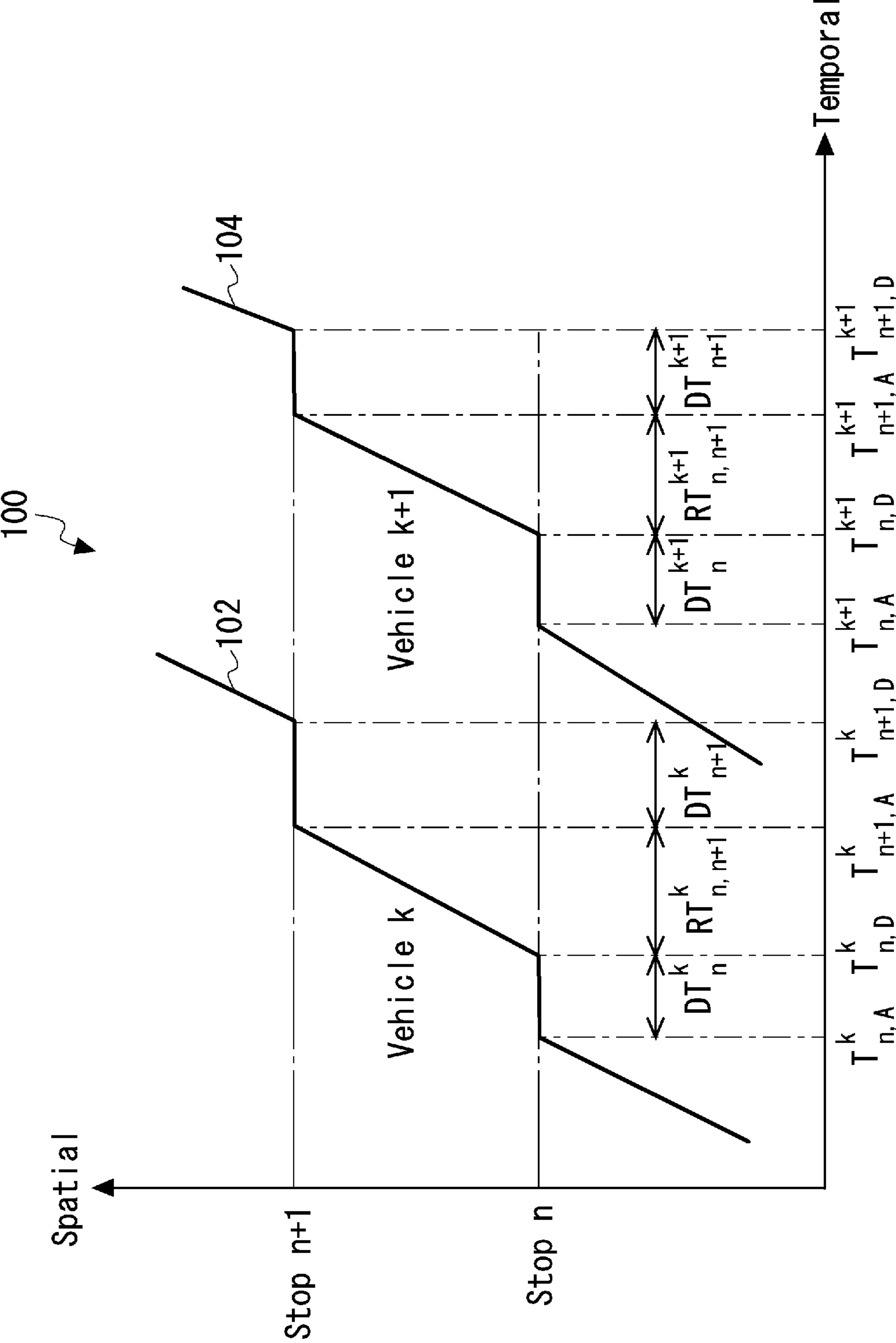


Fig. 1A

[Fig. 1B]

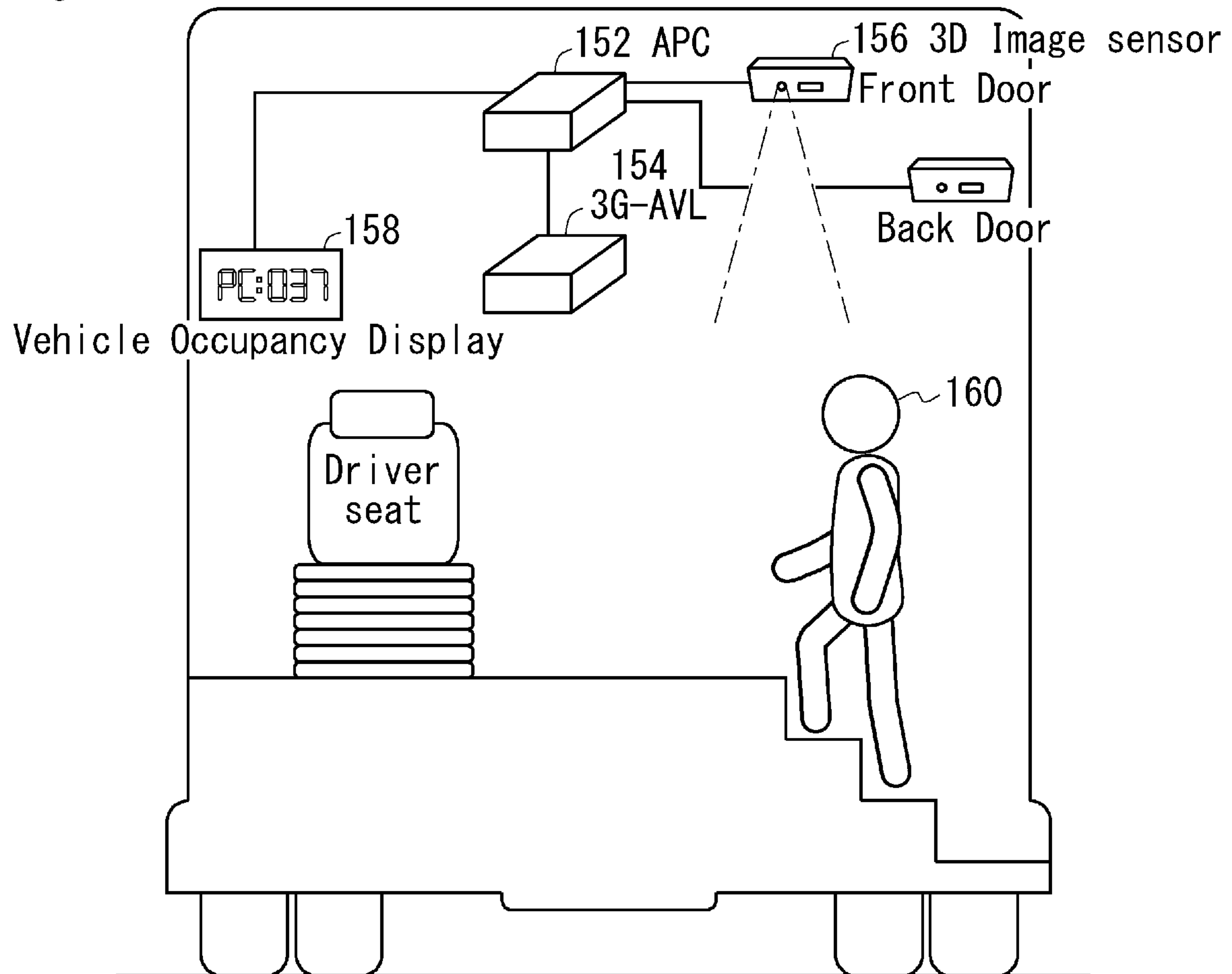


Fig. 1B

[Fig. 2]

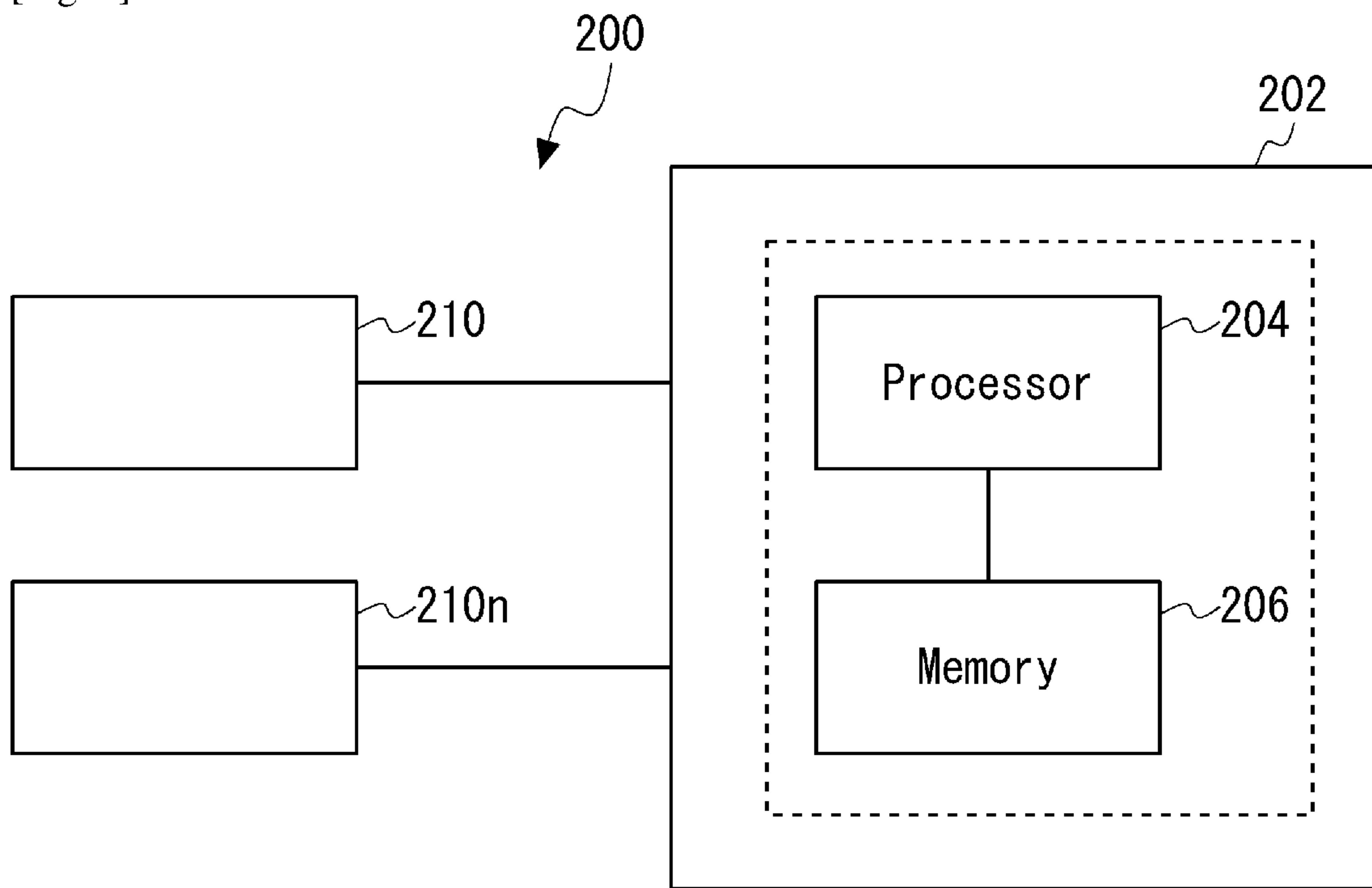


Fig. 2

[Fig. 3]

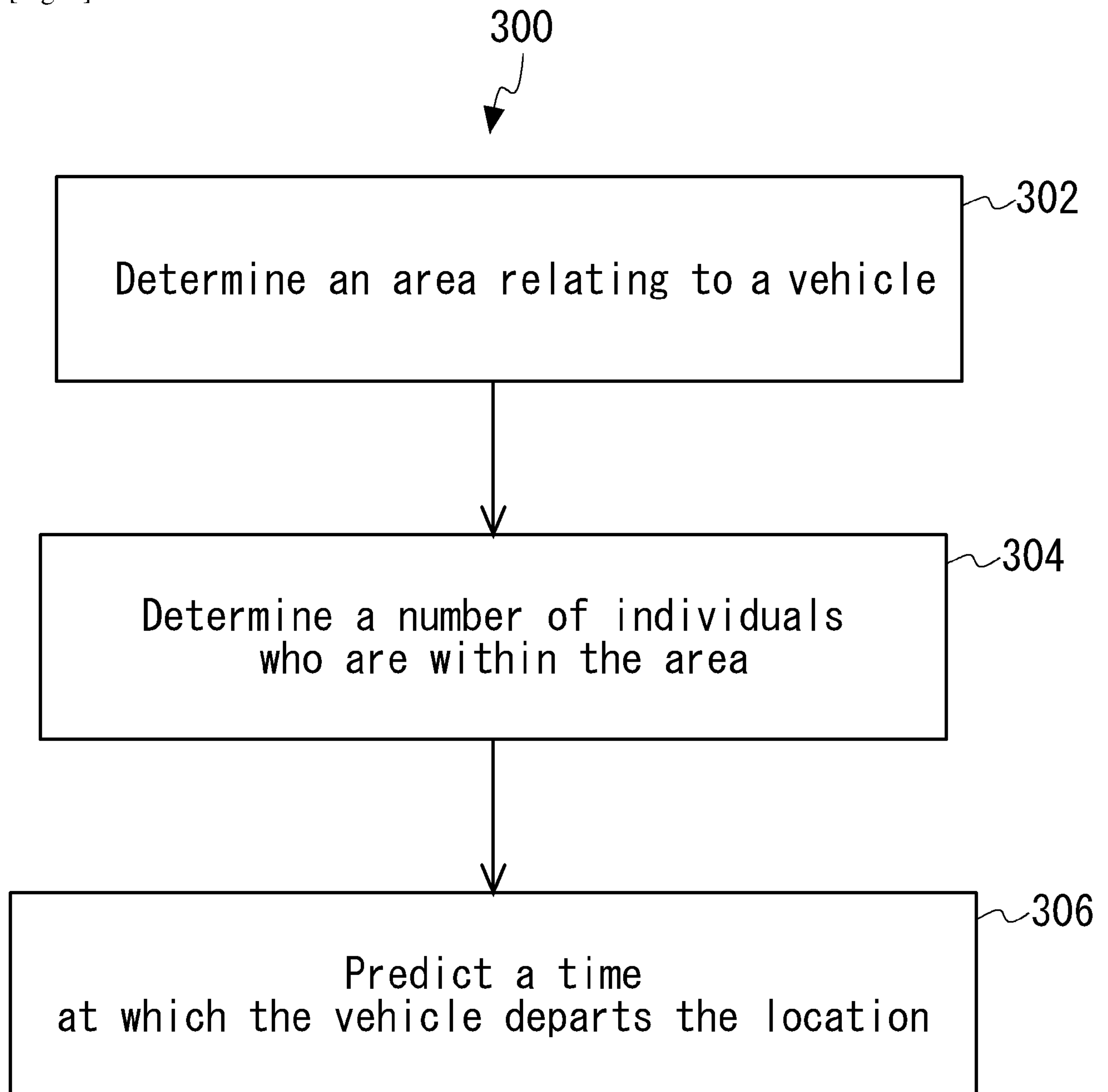
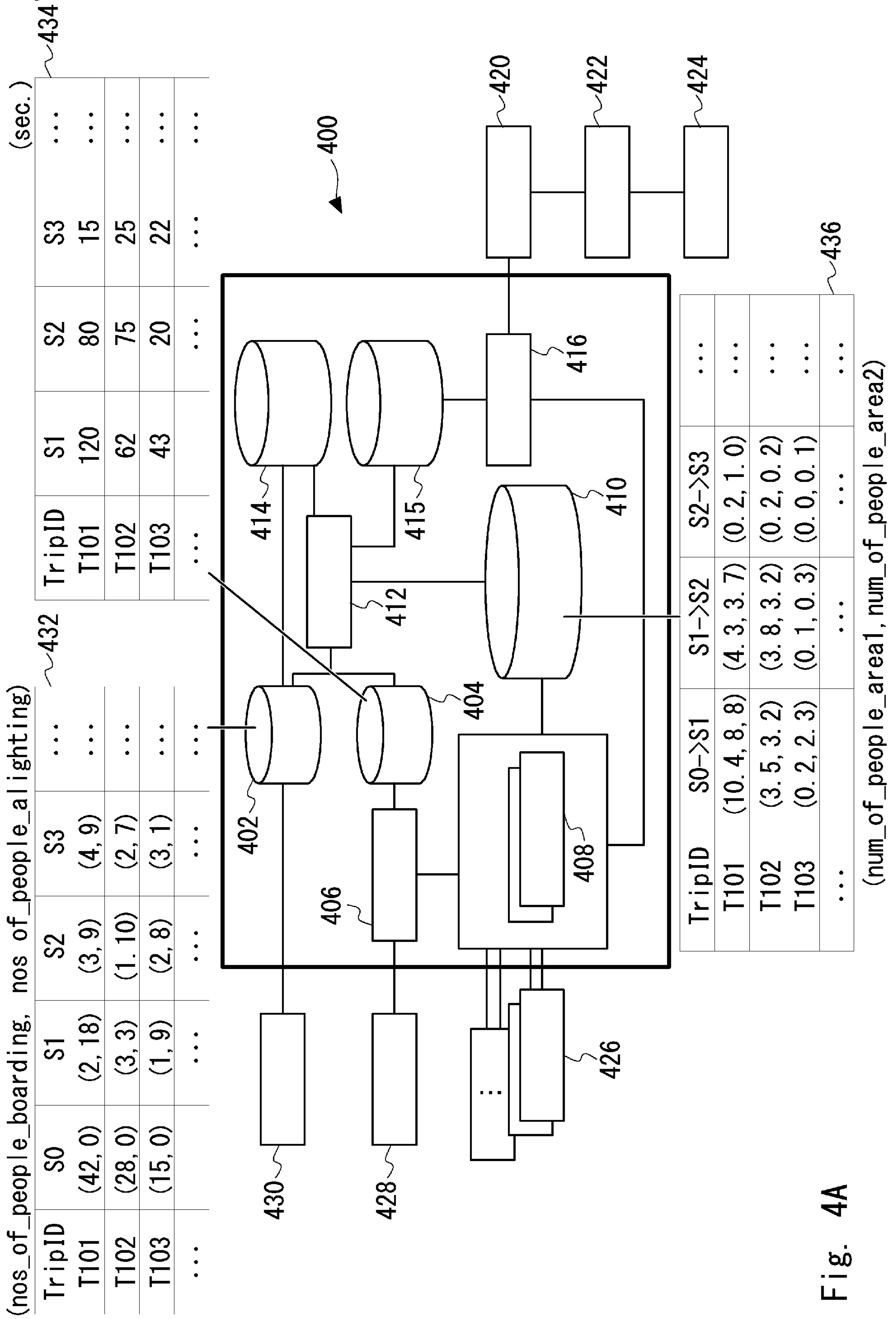


Fig. 3

[Fig. 4A]



[Fig. 4B]

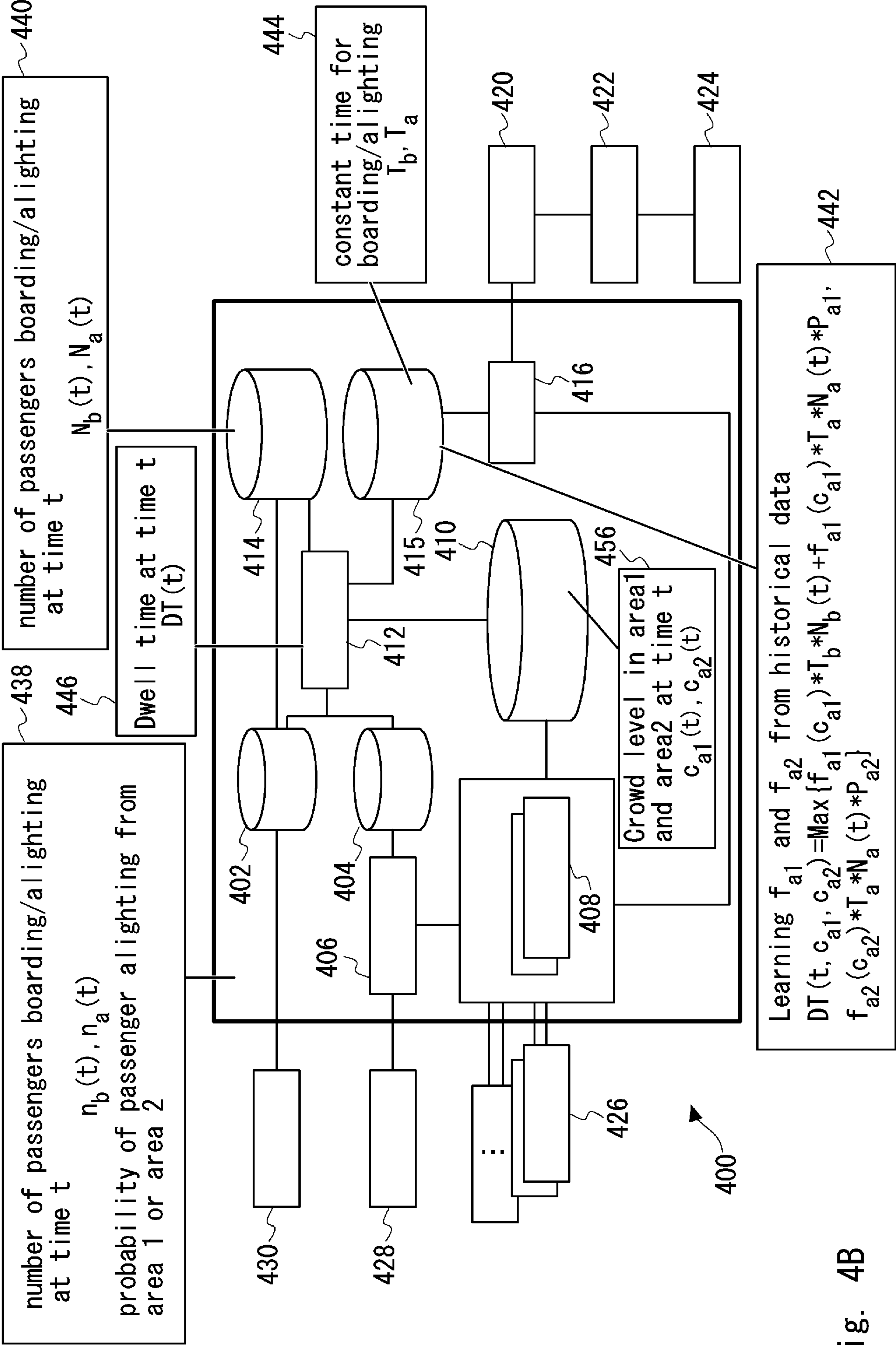


Fig. 4B

[Fig. 4C]

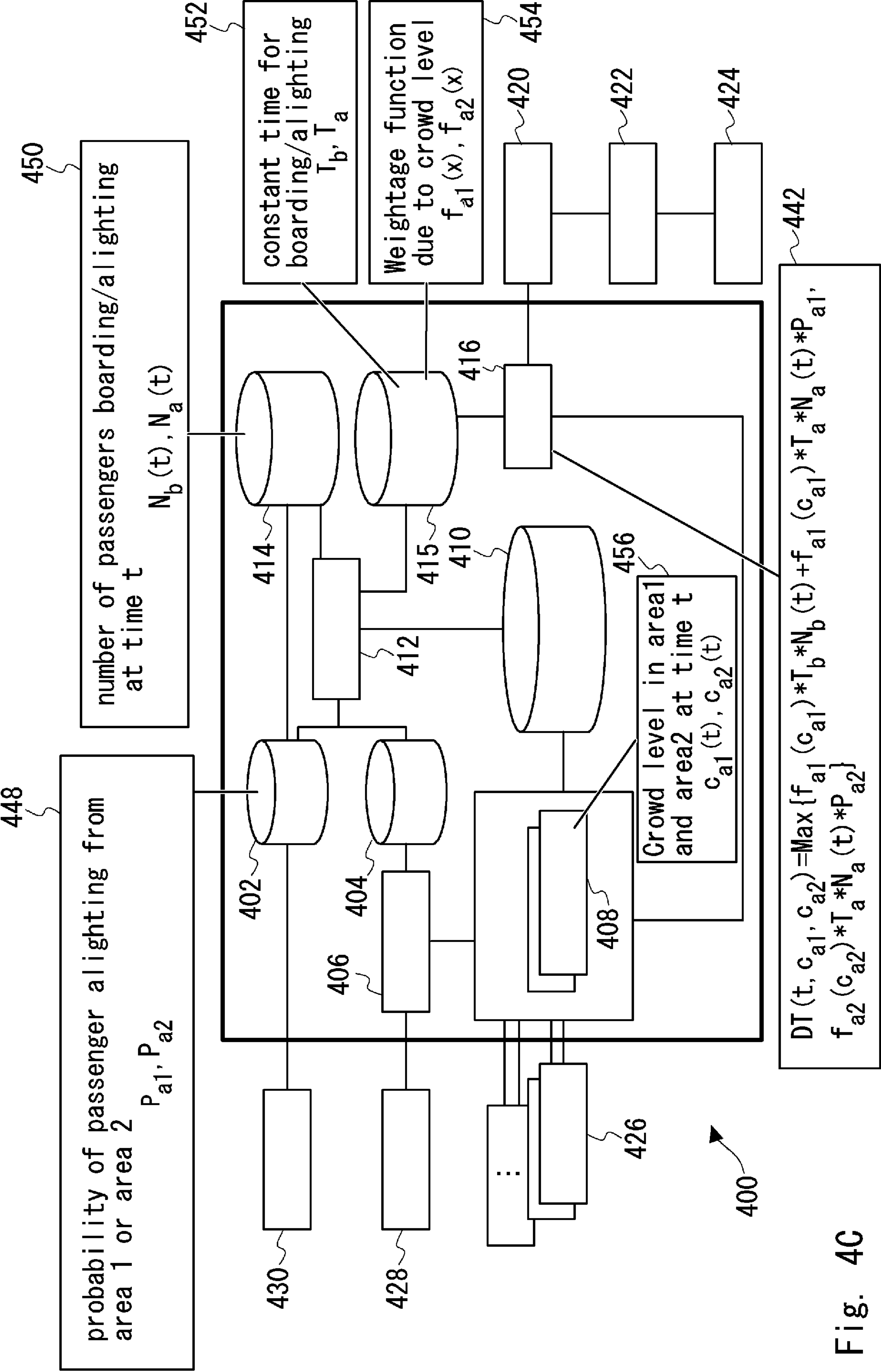
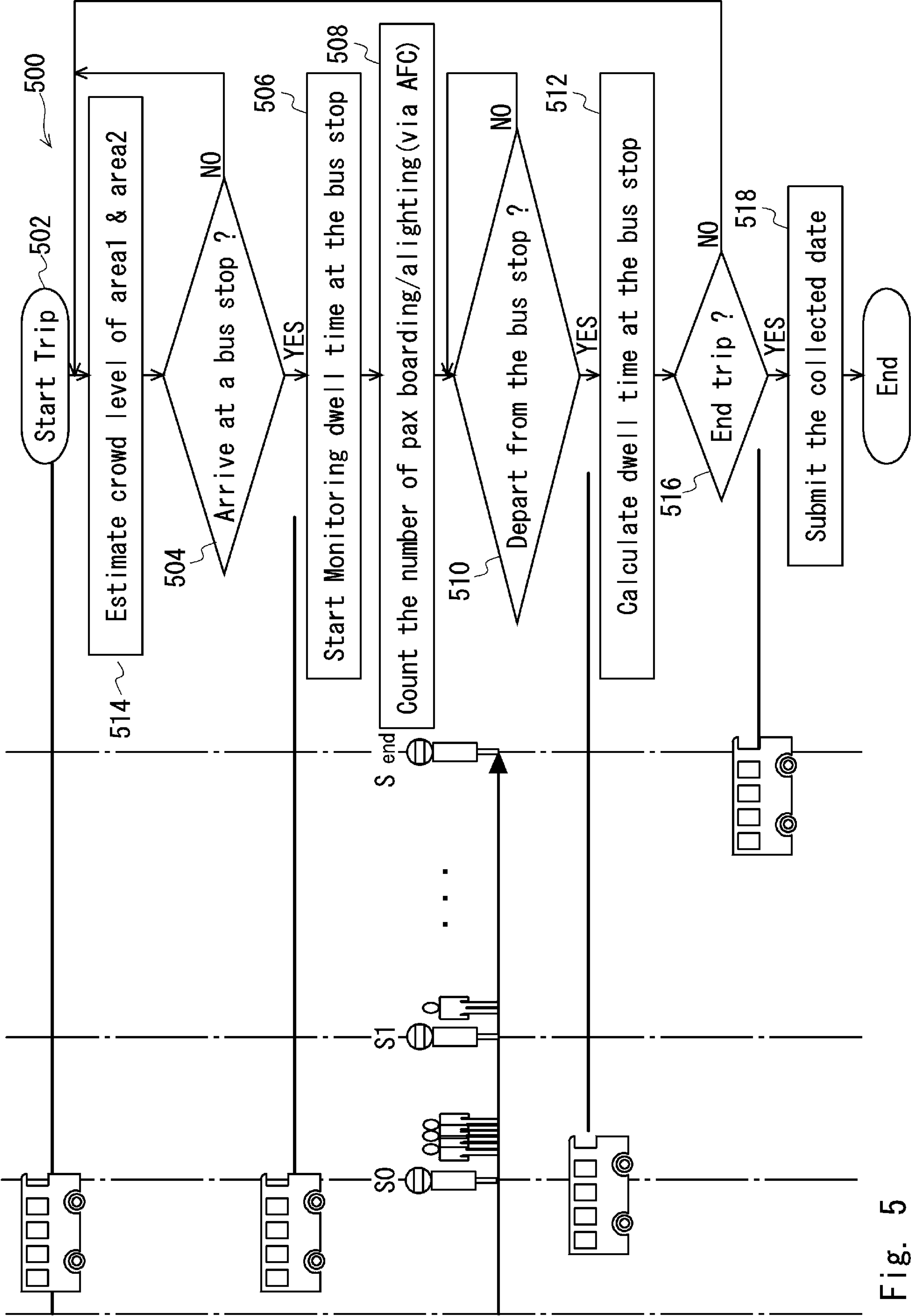


Fig. 4C

[Fig. 5]



[Fig. 6]

600

index	Common			410			402		404
	TripID	Target bus stop ID	Timestamp	ca1: crowd level of area 1 (pax/m2)	ca2: crowd level of area 2 (pax/m2)	Number of passengers boarding (pax)	Number of passenger alighting (pax)		Dwell time at the target bus stop (sec.)
							From area1	From area2	
1	T101	S1	8:02am, 4th Apr. 2017	10.4	8.8	2	2	16	120
2	T101	S2	8:13am, 4th Apr. 2017	4.3	3.7	3	0	9	80
3	T101	S3	8:28am, 4th Apr. 2017	0.2	1.0	4	0	9	15
4	T102	S1	9:32am, 4th Apr. 2017	3.5	3.2	3	0	3	62
5	T102	S2	9:40am, 4th Apr. 2017	3.8	3.2	1	3	7	75
...	...	...	...	...	...	...		...	...

P_{a1}, P_{a2} and $N_b(t), N_a(t)$ can be calculated based on historical data in 402

Fig. 6

Fig. 6

[Fig. 7]

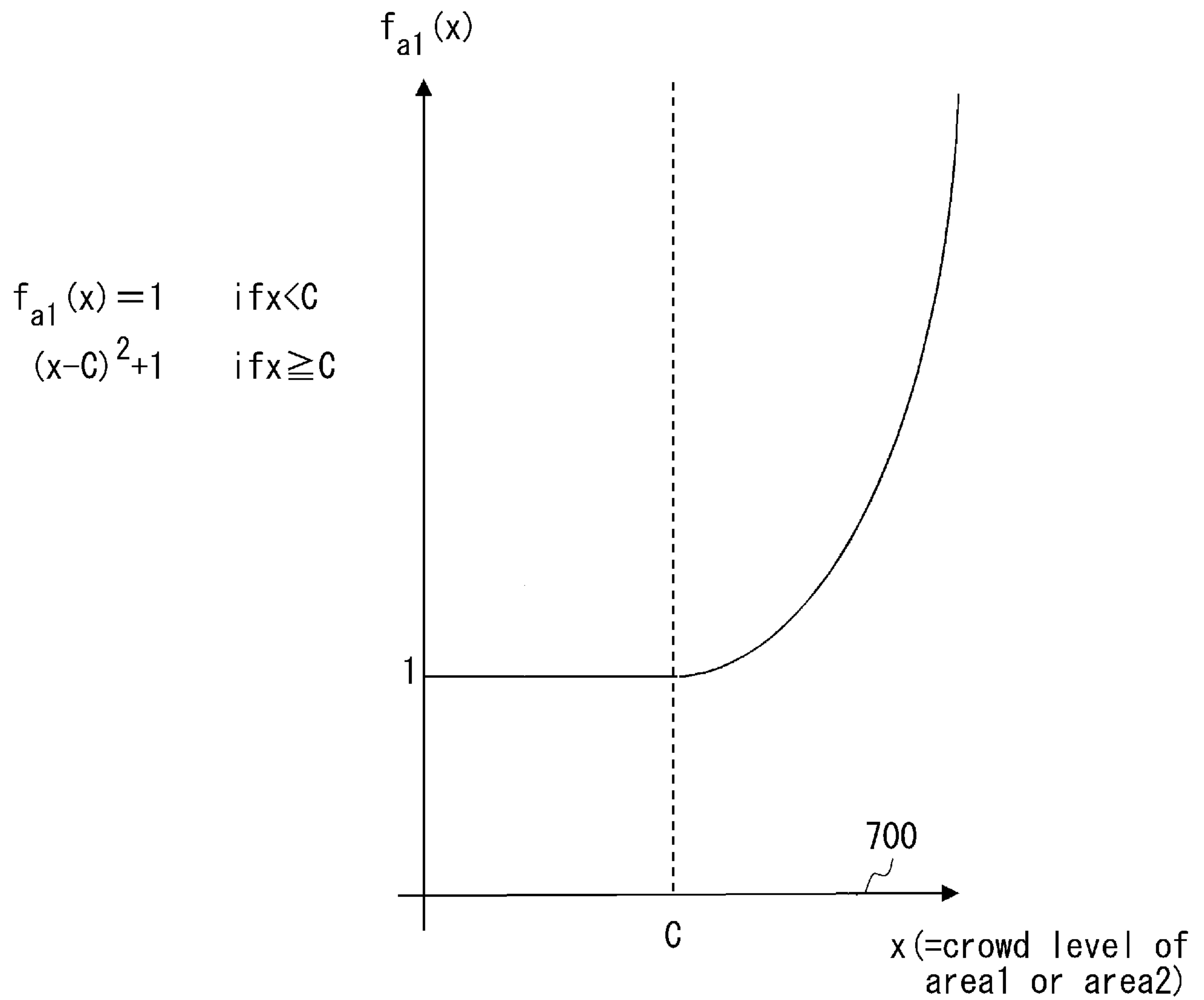
Example of $f_{a1}(x)$ and $f_{a2}(x)$ 

FIG. 7

[Fig. 8]

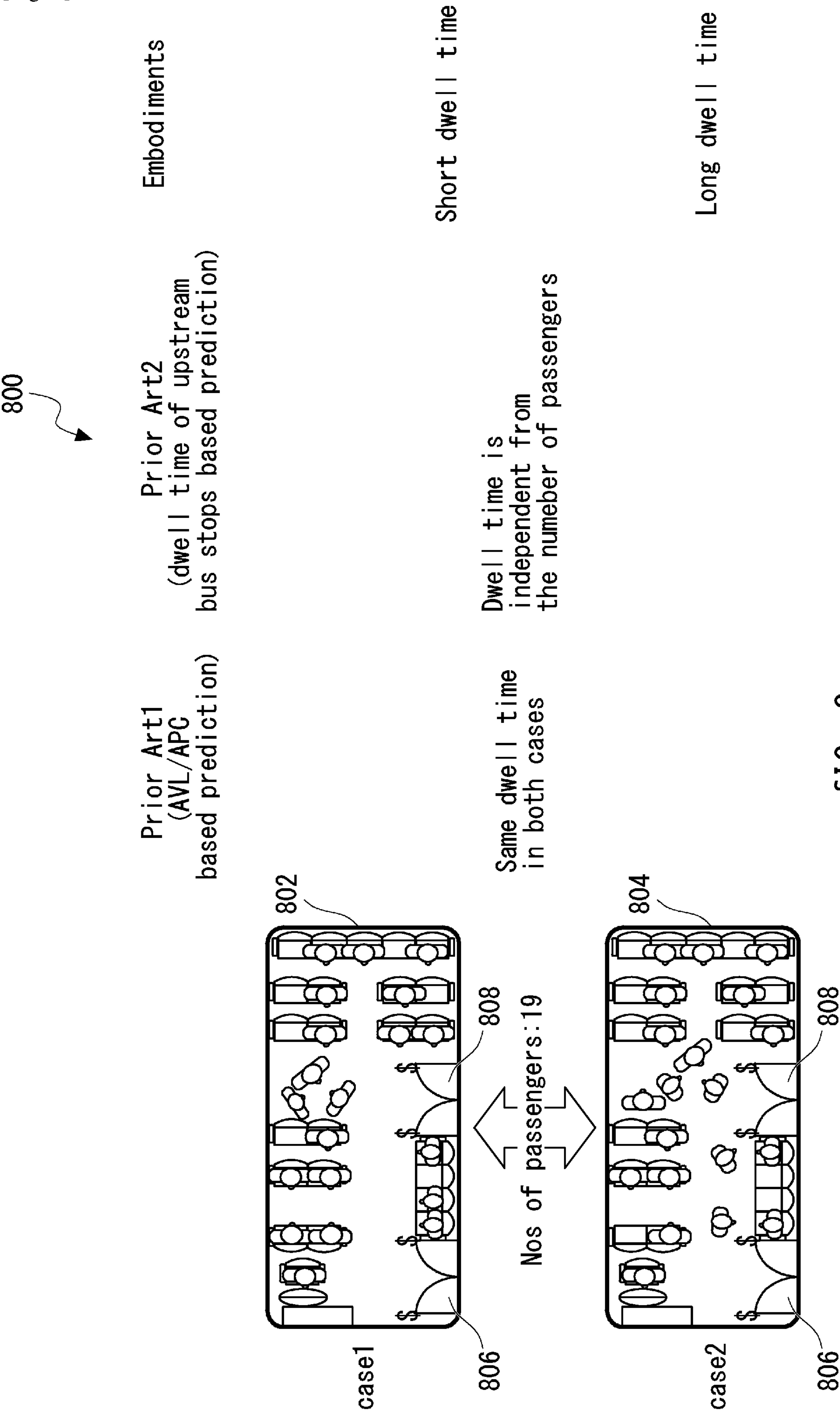


FIG. 8

[Fig. 9]

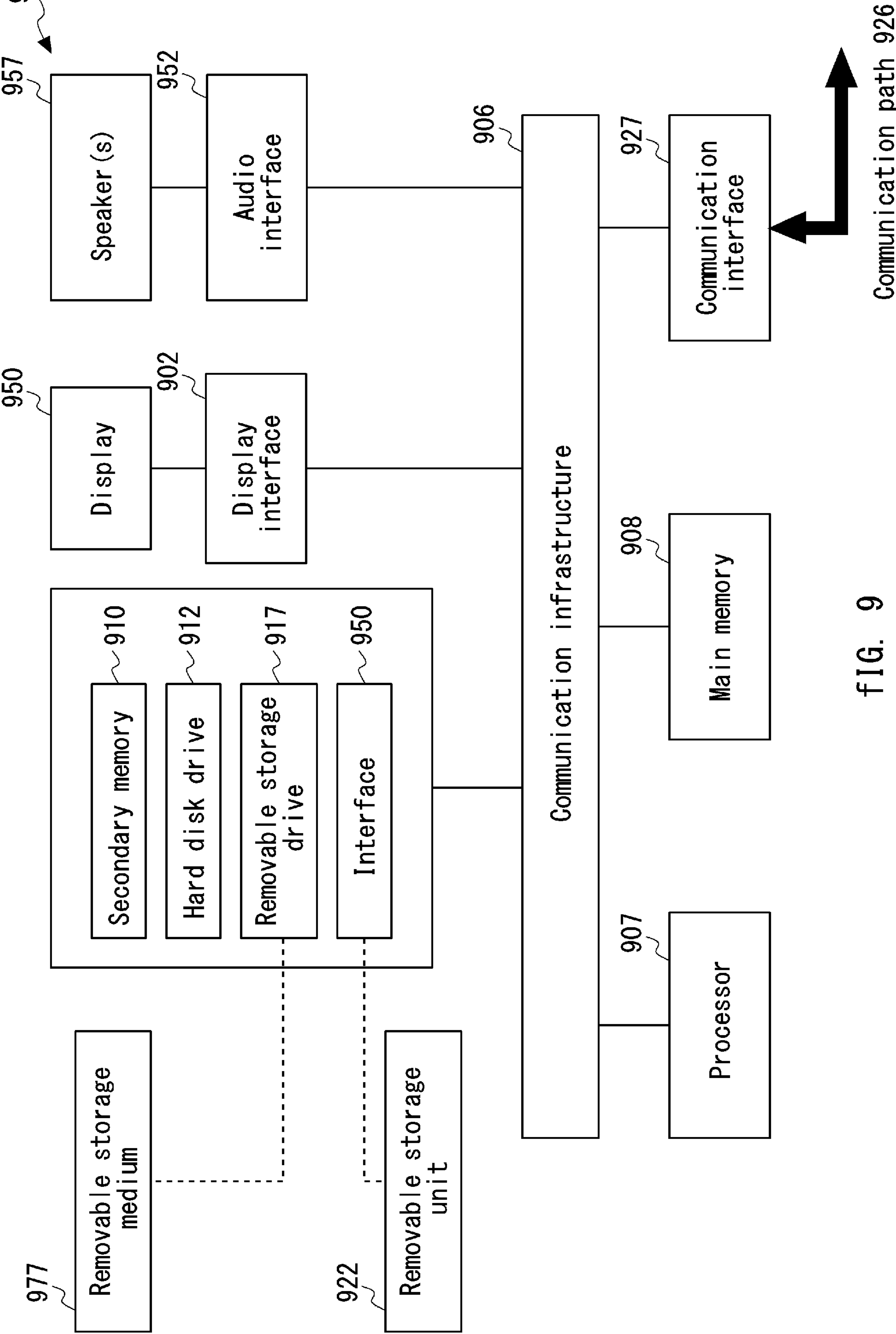


FIG. 9