

FIG. 1

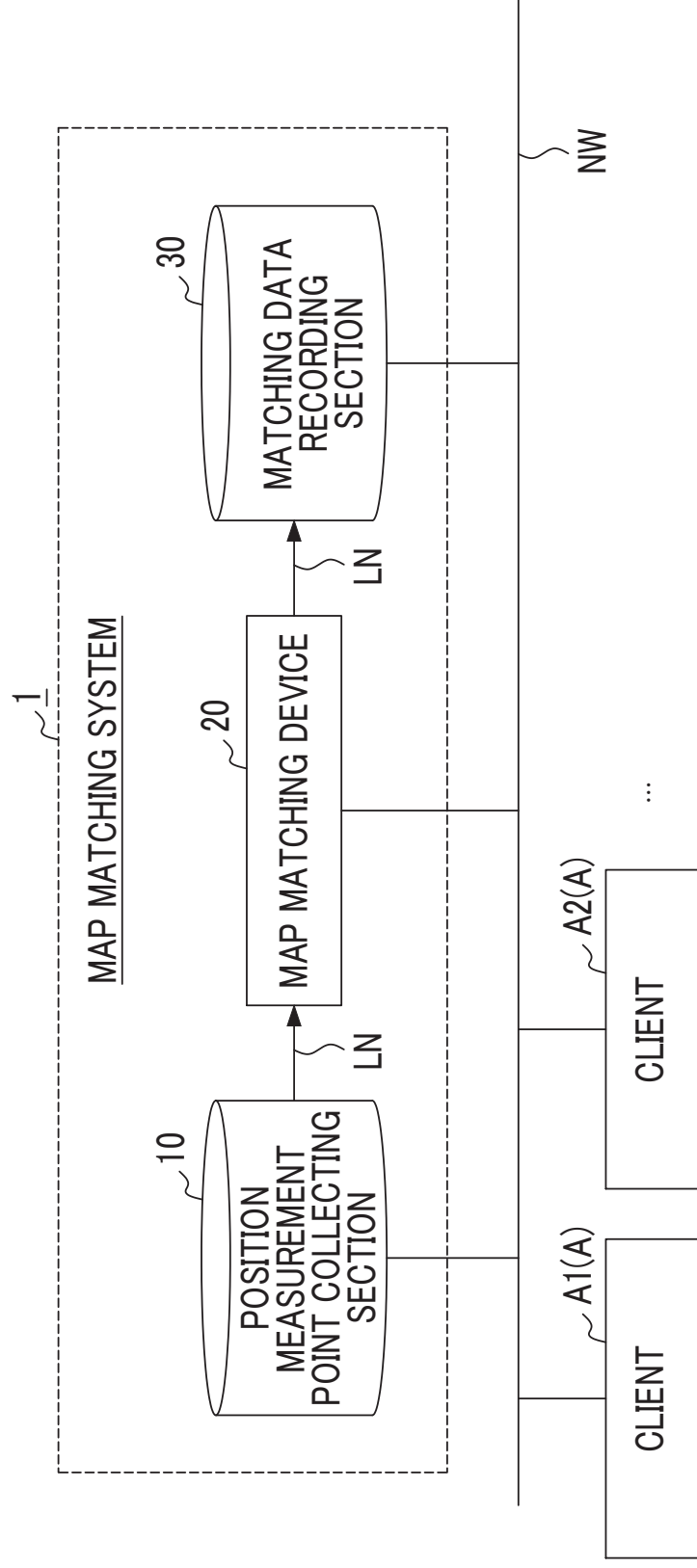


FIG. 2

NO.	APPARATUS ID	POSITION INFORMATION (LATITUDE, LONGITUDE)	MEASUREMENT DATE AND TIME (YEAR/MONTH/DAY, HOUR : MINUTE : SECOND)	SPEED (km/h)	MOVEMENT DIRECTION
P1	00000001	N**, *****, E**, *****	t1 (YYYY/MM/DD, hh : mm : ss)	**	EAST
P2	00000001	N**, *****, E**, *****	t2 (YYYY/MM/DD, hh : mm : ss)	**	SOUTH
P3	00000001	N**, *****, E**, *****	t3 (YYYY/MM/DD, hh : mm : ss)	**	WEST
⋮	⋮	⋮	⋮	⋮	⋮

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FIG. 3

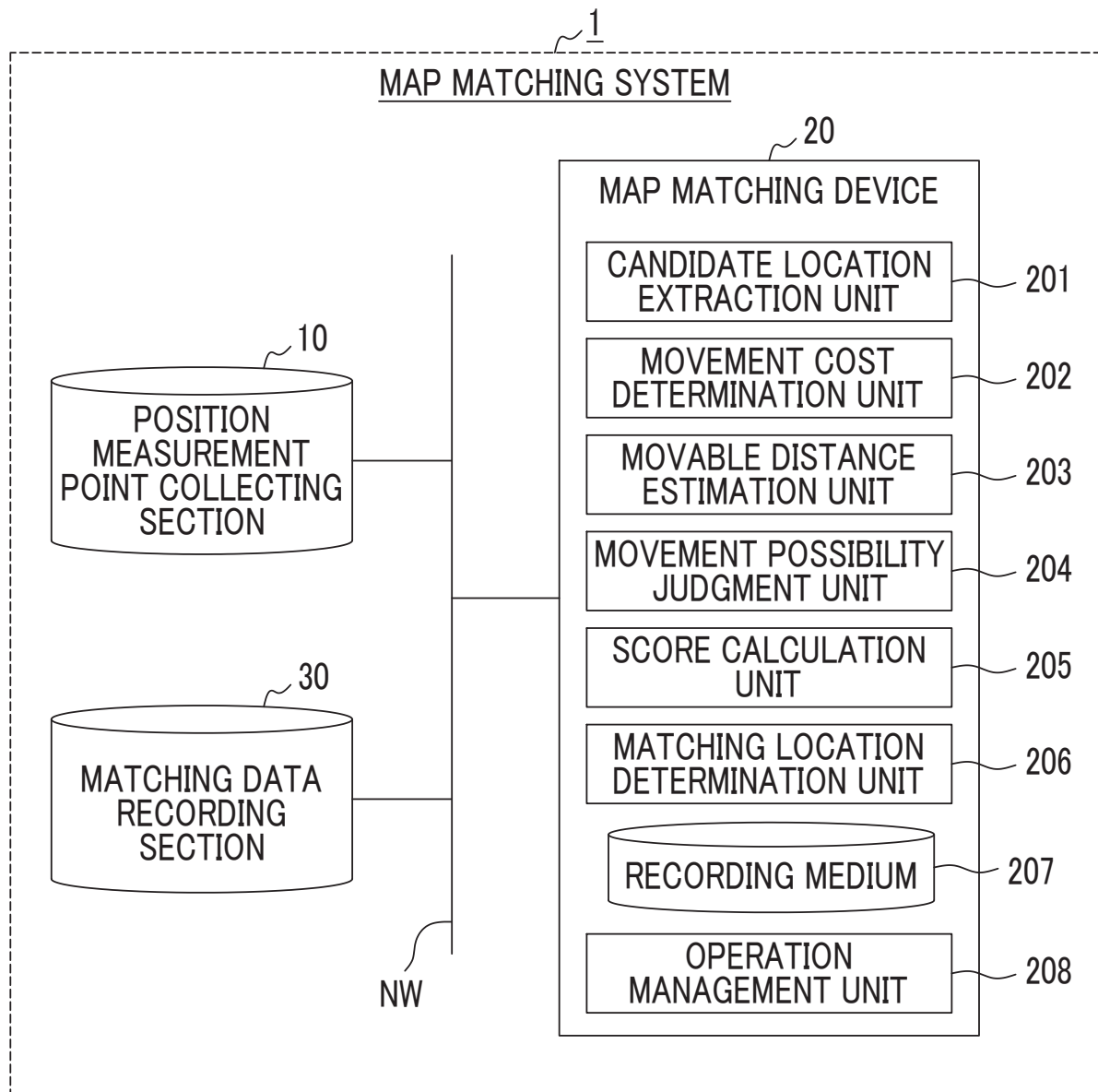


FIG. 4

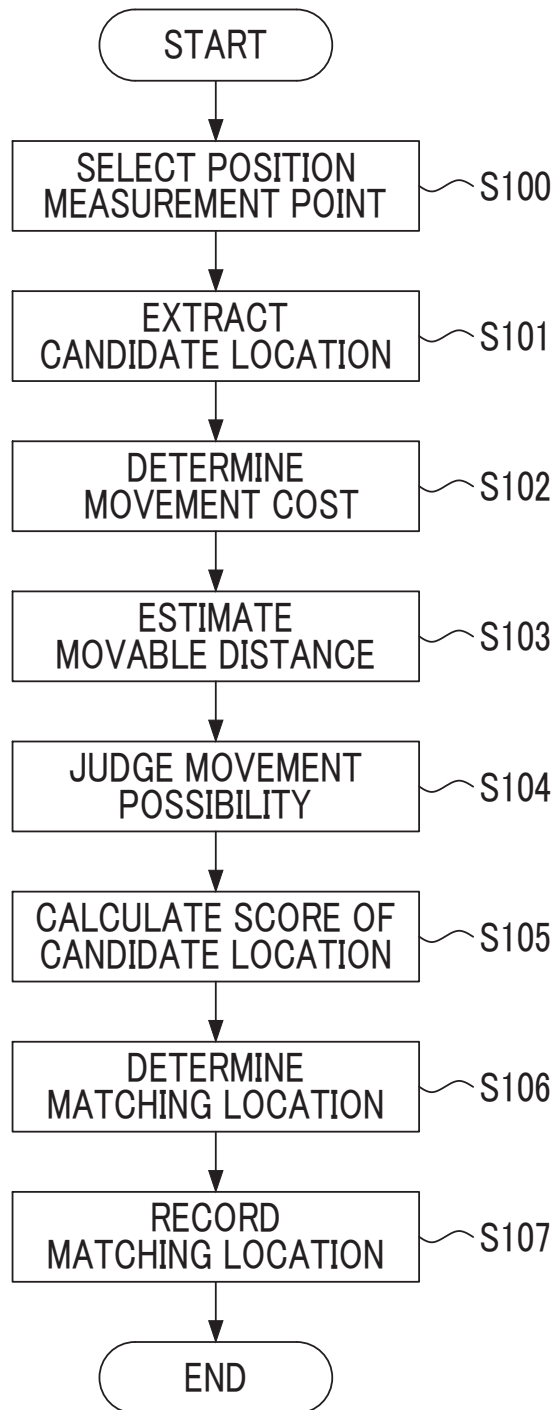


FIG. 5

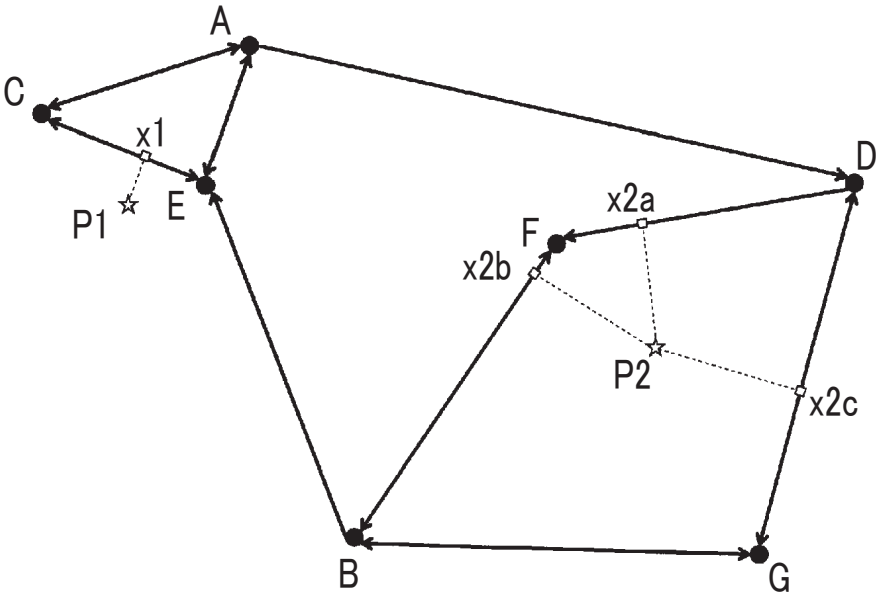
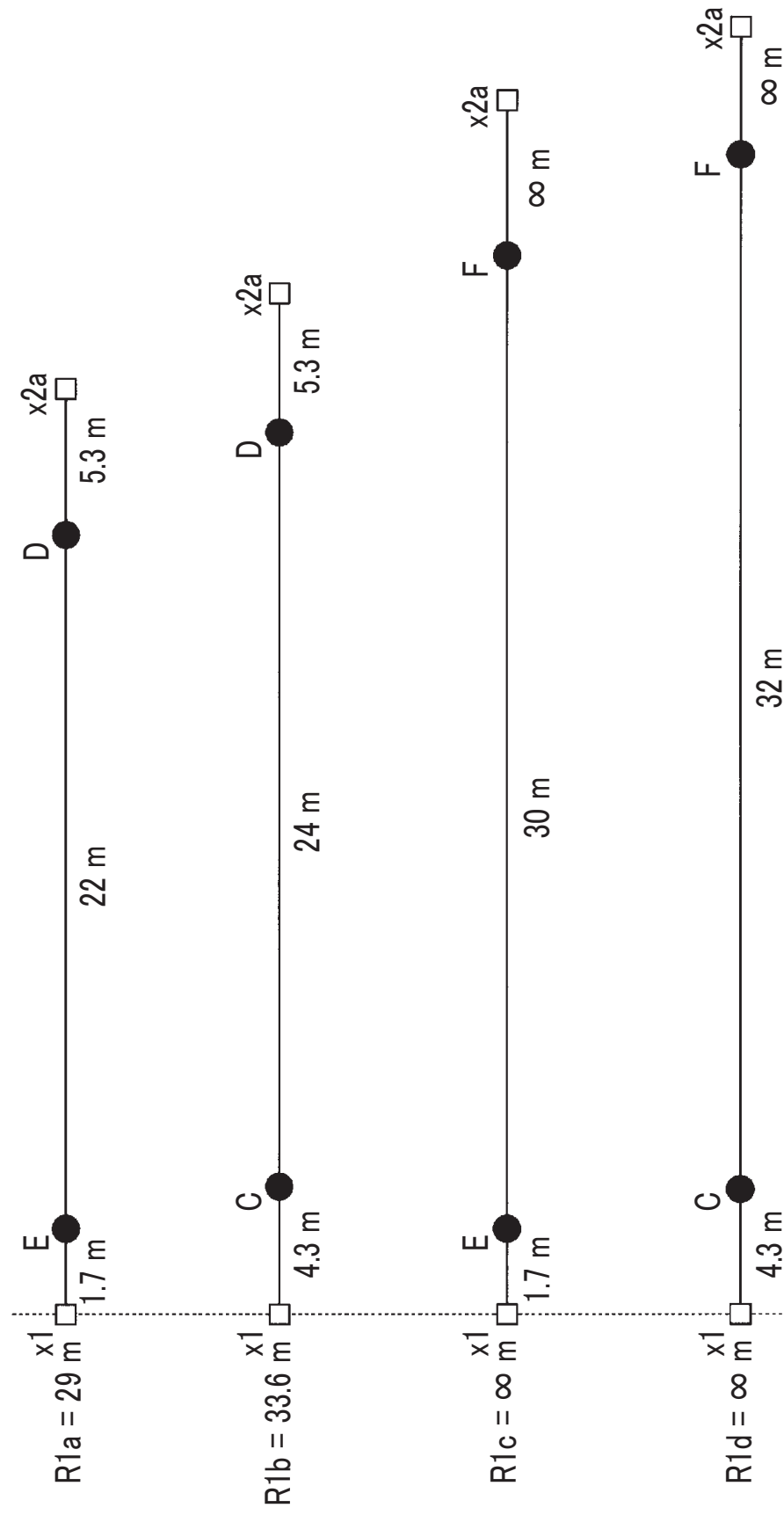


FIG. 6

SEGMENT n							
SEGMENT 2							
SEGMENT 1							
LINKAGE	A	B	C	D	E	F	G
A	0 m	35 m	4 m	20 m	2 m	28 m	30 m
B	15 m	0 m	19 m	26 m	13 m	7 m	13 m
C	4 m	39 m	0 m	24 m	6 m	32 m	34 m
D	30 m	15 m	34 m	0 m	28 m	8 m	10 m
E	2 m	37 m	6 m	22 m	0 m	30 m	32 m
F	22 m	7 m	26 m	30 m	20 m	0 m	20 m
G	28 m	13 m	32 m	10 m	26 m	18 m	0 m

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FIG. 7



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FIG. 8

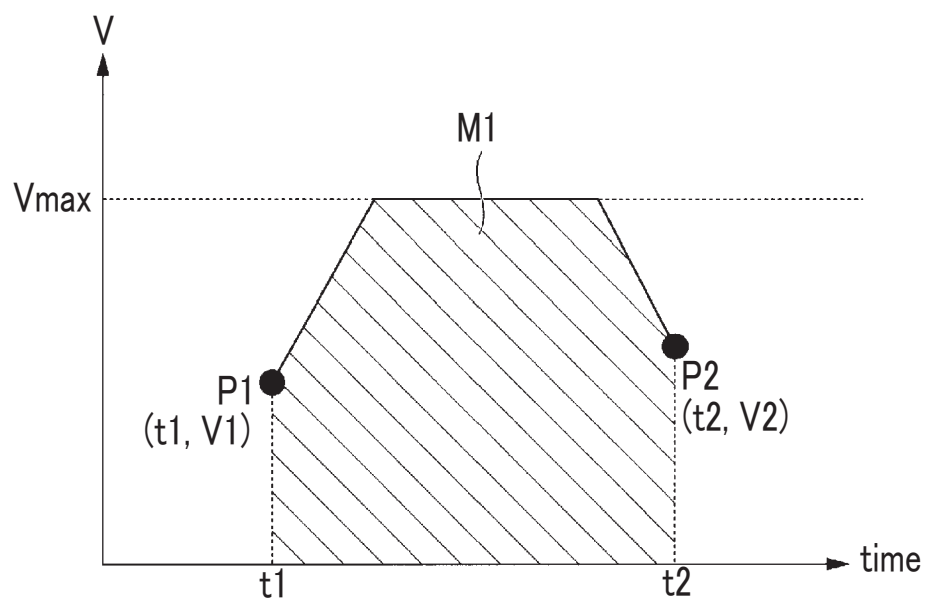
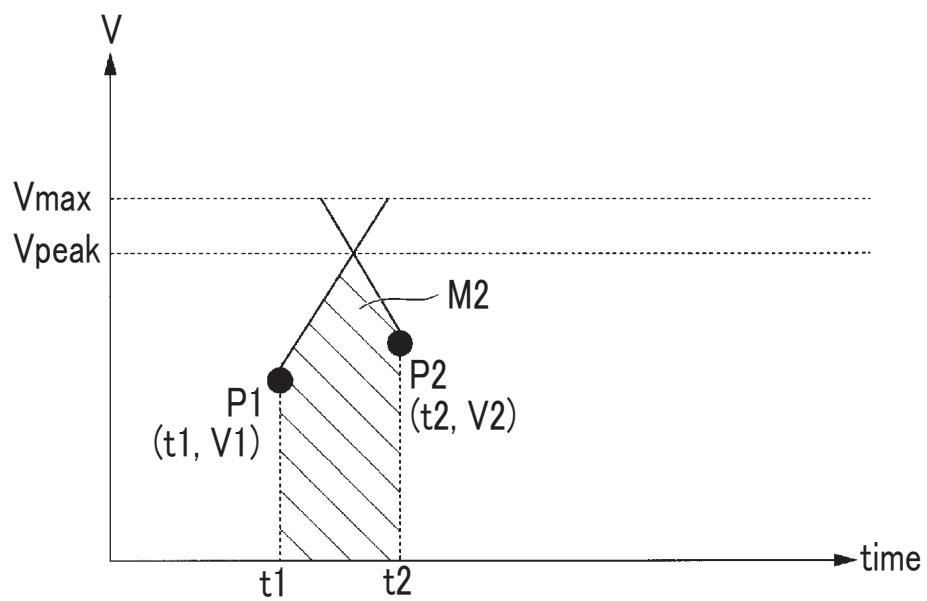


FIG. 9



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FIG. 10

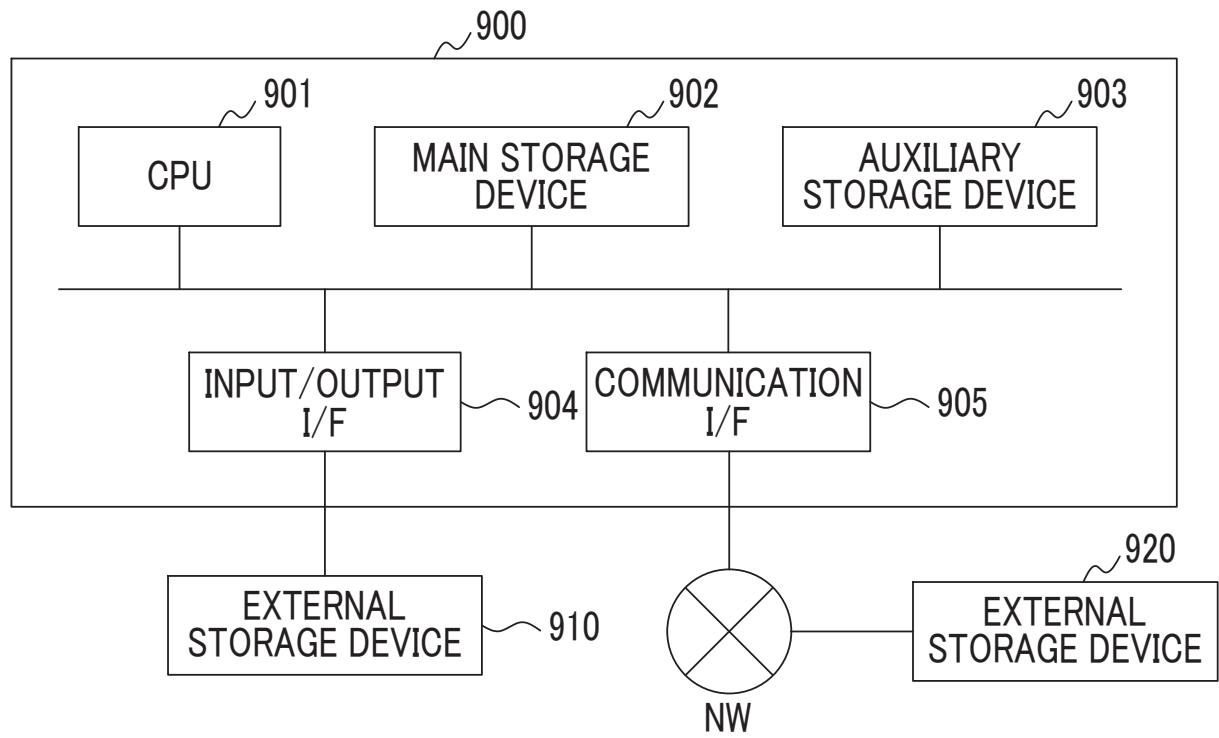
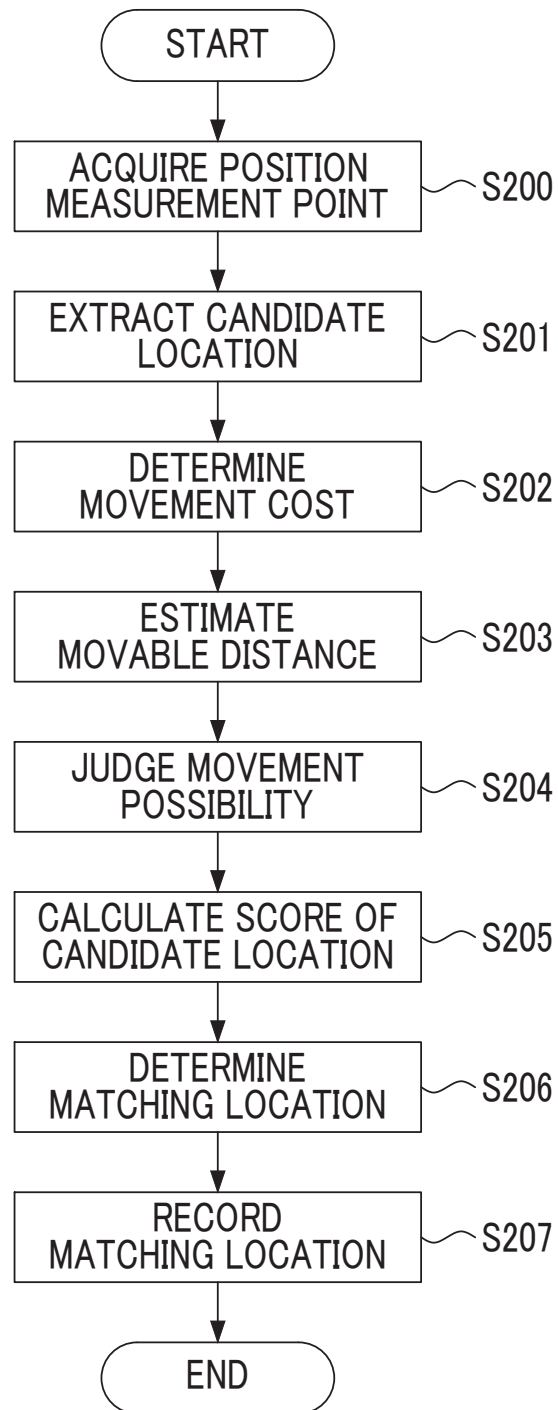
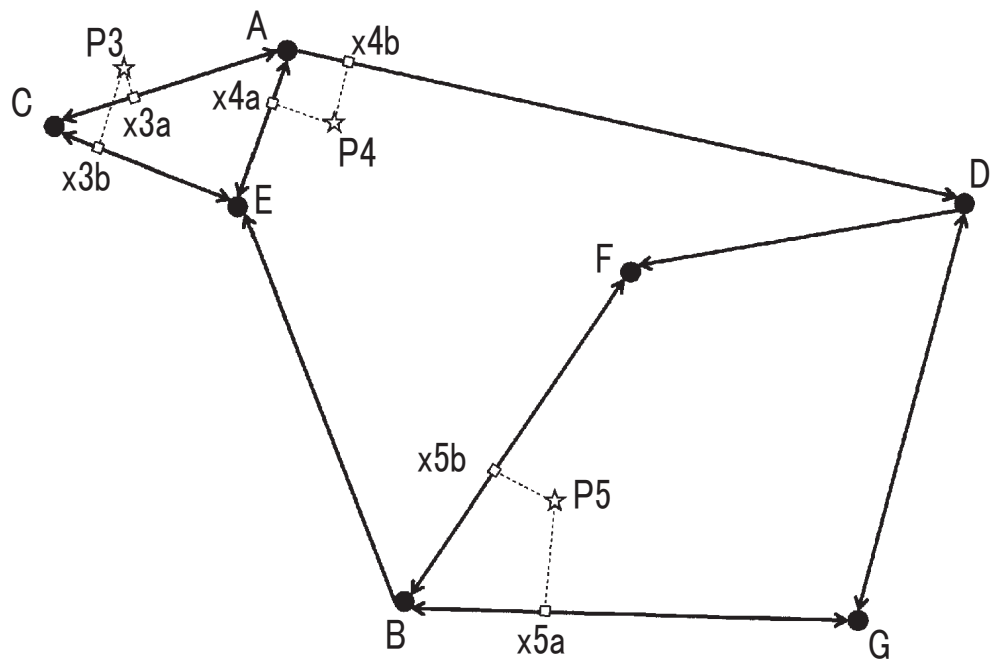


FIG. 11



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FIG. 12



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FIG. 13

CANDIDATE PATH	P2	P3	MOVEMENT COST (m)	MOVEMENT POSSIBILITY
R21	x2	x3a	13.8	POSSIBLE
R22	x2	x3b	14.2	POSSIBLE
CANDIDATE PATH	P3	P4	MOVEMENT COST (m)	MOVEMENT POSSIBILITY
R31	x3a	x4a	3.5	POSSIBLE
R32	x3a	x4b	4	POSSIBLE
R33	x3b	x4a	5.3	POSSIBLE
R34	x3b	x4b	5.8	IMPOSSIBLE
CANDIDATE PATH	P4	P5	MOVEMENT COST (m)	MOVEMENT POSSIBILITY
R41	x4a	x5a	38.5	IMPOSSIBLE
R42	x4a	x5b	32.5	POSSIBLE
R43	x4b	x5a	37	IMPOSSIBLE
R44	x4b	x5b	31	POSSIBLE

FIG. 14

P3		P4		P5	
x3a	x3b	x4a	x4b	x5a	x5b
0.1	0.4	0.3	0.2	0.6	0.4