FIG. 1

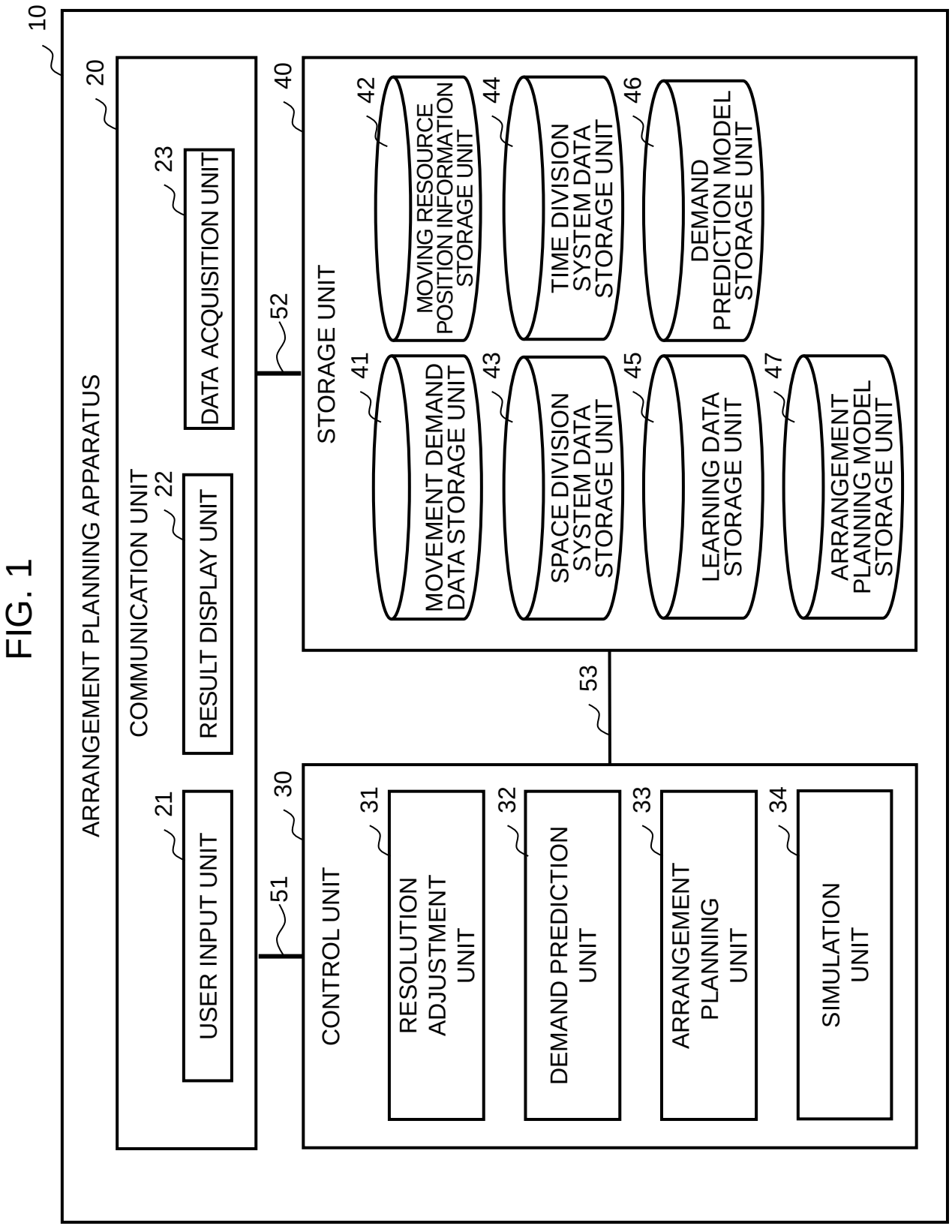

10
ARRANGEMENT PLANNING APPARATUS
20
COMMUNICATION UNIT
21
USER INPUT UNIT
22
RESULT DISPLAY UNIT
23
DATA ACQUISITION UNIT
51
52
53
30
CONTROL UNIT
31
RESOLUTION ADJUSTMENT UNIT
32
DEMAND PREDICTION UNIT
33
ARRANGEMENT PLANNING UNIT
34
SIMULATION UNIT
40
STORAGE UNIT
41
MOVEMENT DEMAND DATA STORAGE UNIT
42
MOVING RESOURCE POSITION INFORMATION STORAGE UNIT
43
SPACE DIVISION SYSTEM DATA STORAGE UNIT
44
TIME DIVISION SYSTEM DATA STORAGE UNIT
45
LEARNING DATA STORAGE UNIT
46
DEMAND PREDICTION MODEL STORAGE UNIT
47
ARRANGEMENT PLANNING MODEL STORAGE UNIT

FIG. 2

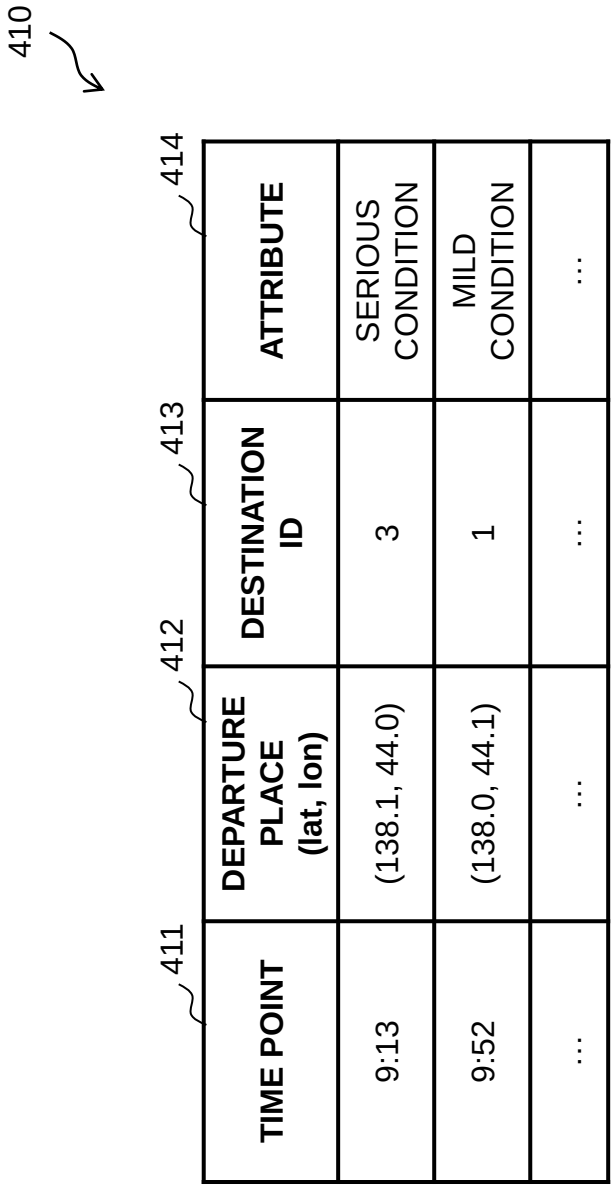

410
411
412
413
414
TIME POINT
DEPARTURE PLACE (lat, lon)
DESTINATION ID
ATTRIBUTE
9:13
(138.1, 44.0)
3
SERIOUS CONDITION
9:52
(138.0, 44.1)
1
MILD CONDITION
…
…
…
…

FIG. 3

420

421 MOVING RESOURCE ID	422 TIME POINT INFORMATION	423 DEPARTURE PLACE POSITION INFORMATION (lat, lon)	424 DESTINATION POSITION INFORMATION (lat, lon)	425 ATTRIBUTE
1	7:01	(138.1, 44.2)	(138.1, 44.0)	TRANSPORTING
2	9:00	(138.1, 44.1)	(138.0, 44.1)	TRANSPORTING TO WAITING PLACE
3	10:03	(138.1, 44.3)	(138.0, 44.2)	WAITING
..	…	…	…	…

FIG. 4

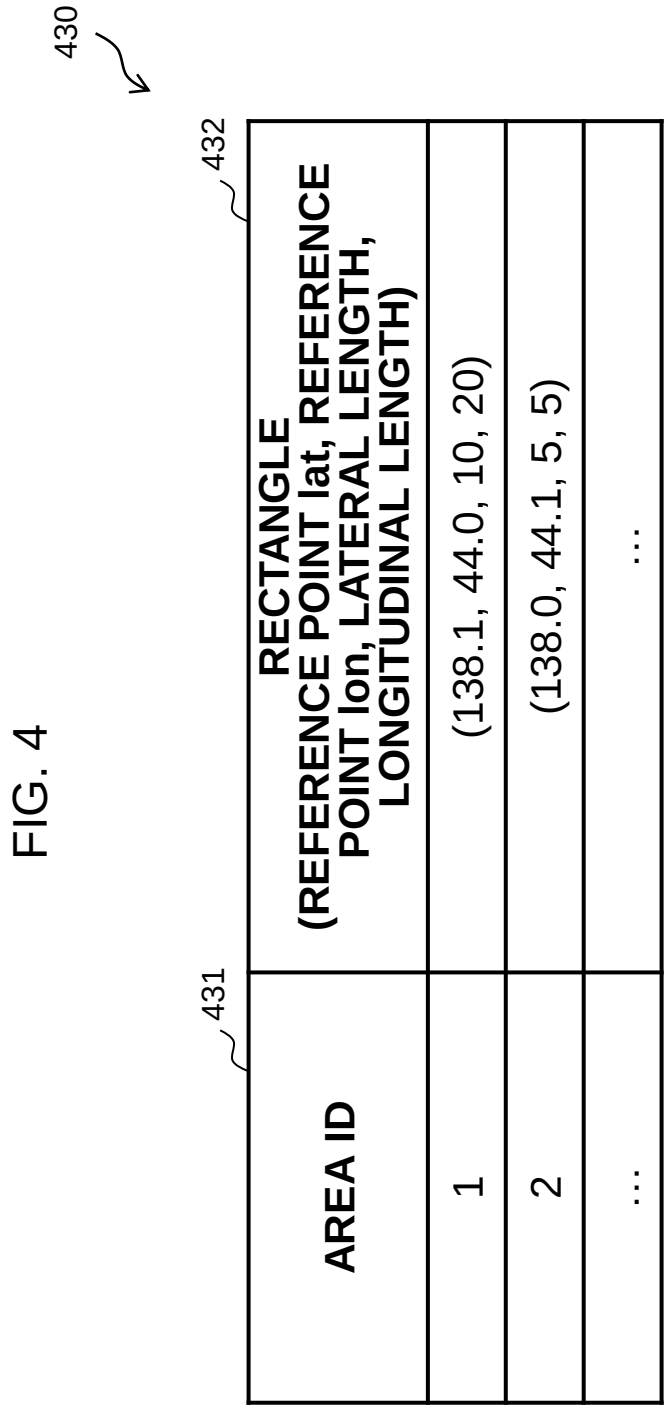

430
431
432
AREA ID
RECTANGLE (REFERENCE POINT lat, REFERENCE POINT lon, LATERAL LENGTH, LONGITUDINAL LENGTH)
1
(138.1, 44.0, 10, 20)
2
(138.0, 44.1, 5, 5)
...
...

FIG. 5

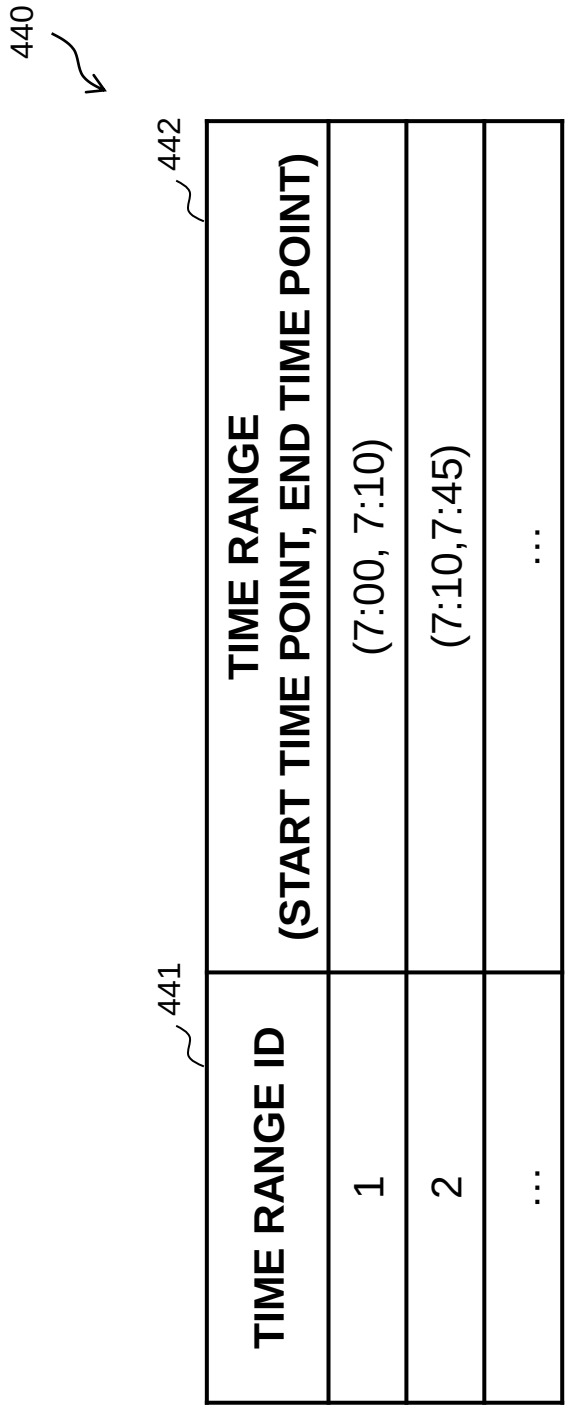

440
441
442
TIME RANGE ID
TIME RANGE
(START TIME POINT, END TIME POINT)
1
(7:00, 7:10)
2
(7:10,7:45)
...
...

FIG. 6

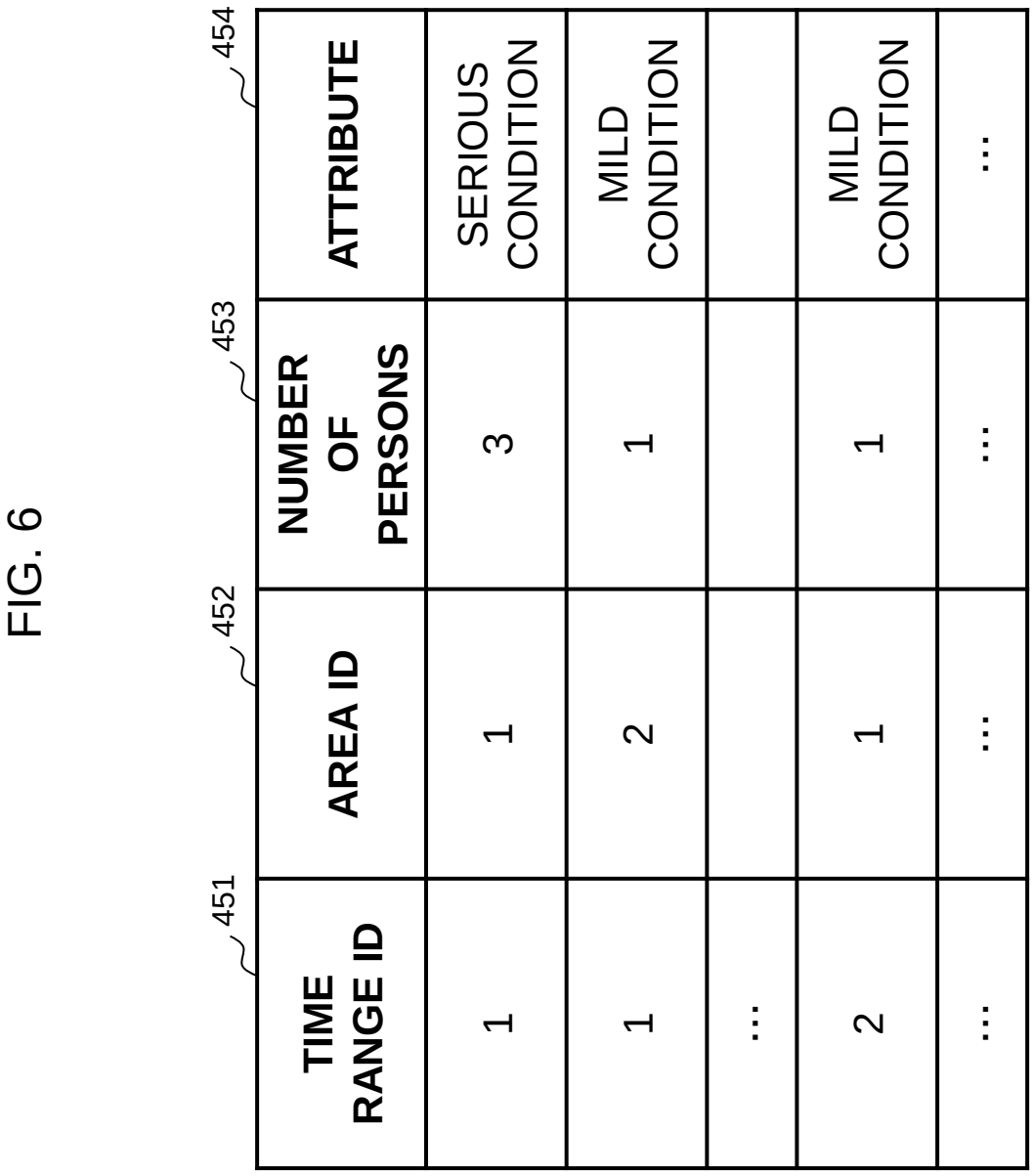

450
451
452
453
454
TIME RANGE ID
AREA ID
NUMBER OF PERSONS
ATTRIBUTE
1
1
3
SERIOUS CONDITION
1
2
1
MILD CONDITION
...
2
1
MILD CONDITION
...
...
...

FIG. 7

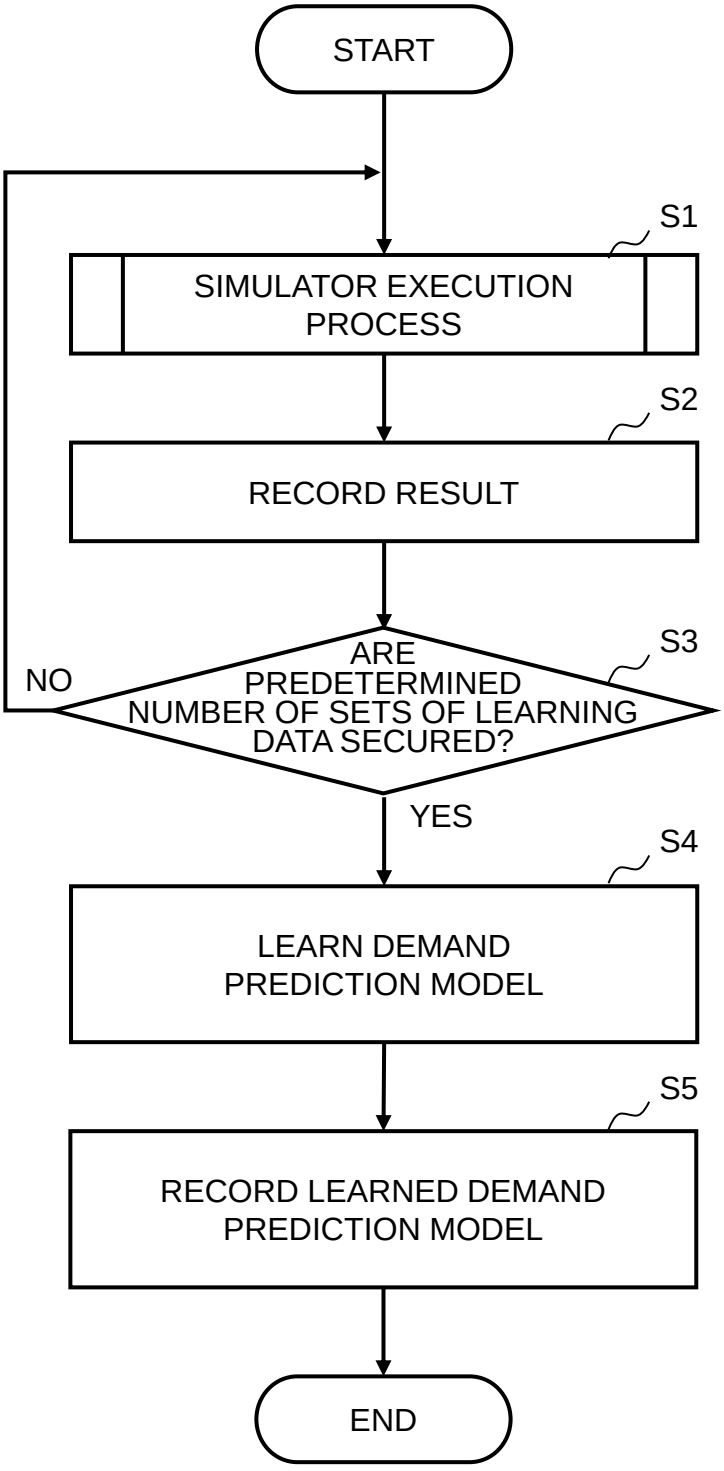

START
S1
SIMULATOR EXECUTION PROCESS
S2
RECORD RESULT
S3
ARE PREDETERMINED NUMBER OF SETS OF LEARNING DATA SECURED?
NO
YES
S4
LEARN DEMAND PREDICTION MODEL
S5
RECORD LEARNED DEMAND PREDICTION MODEL
END

FIG. 8

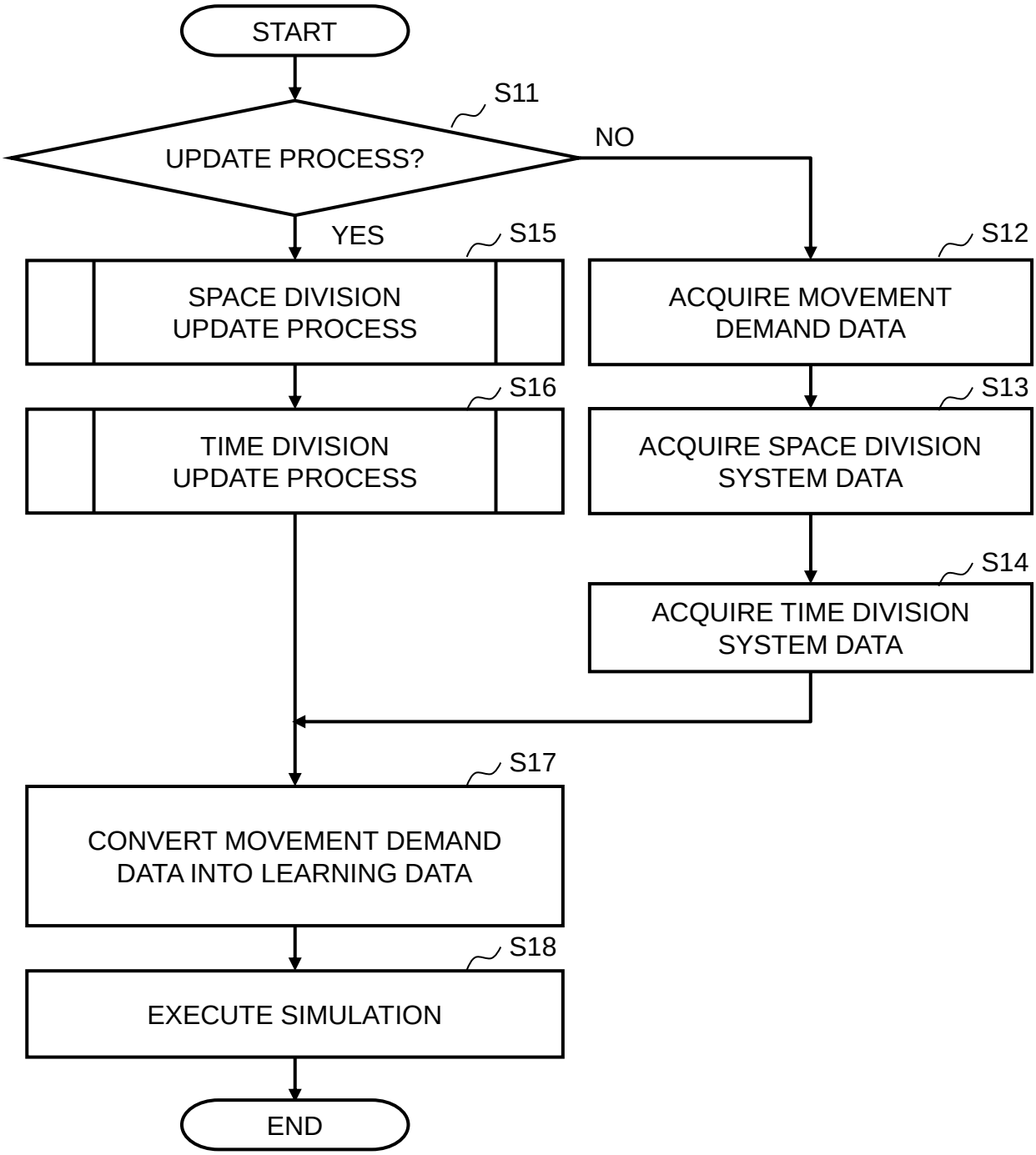

START
S11
UPDATE PROCESS?
NO
YES
S15
SPACE DIVISION UPDATE PROCESS
S12
ACQUIRE MOVEMENT DEMAND DATA
S16
TIME DIVISION UPDATE PROCESS
S13
ACQUIRE SPACE DIVISION SYSTEM DATA
S14
ACQUIRE TIME DIVISION SYSTEM DATA
S17
CONVERT MOVEMENT DEMAND DATA INTO LEARNING DATA
S18
EXECUTE SIMULATION
END

FIG. 9

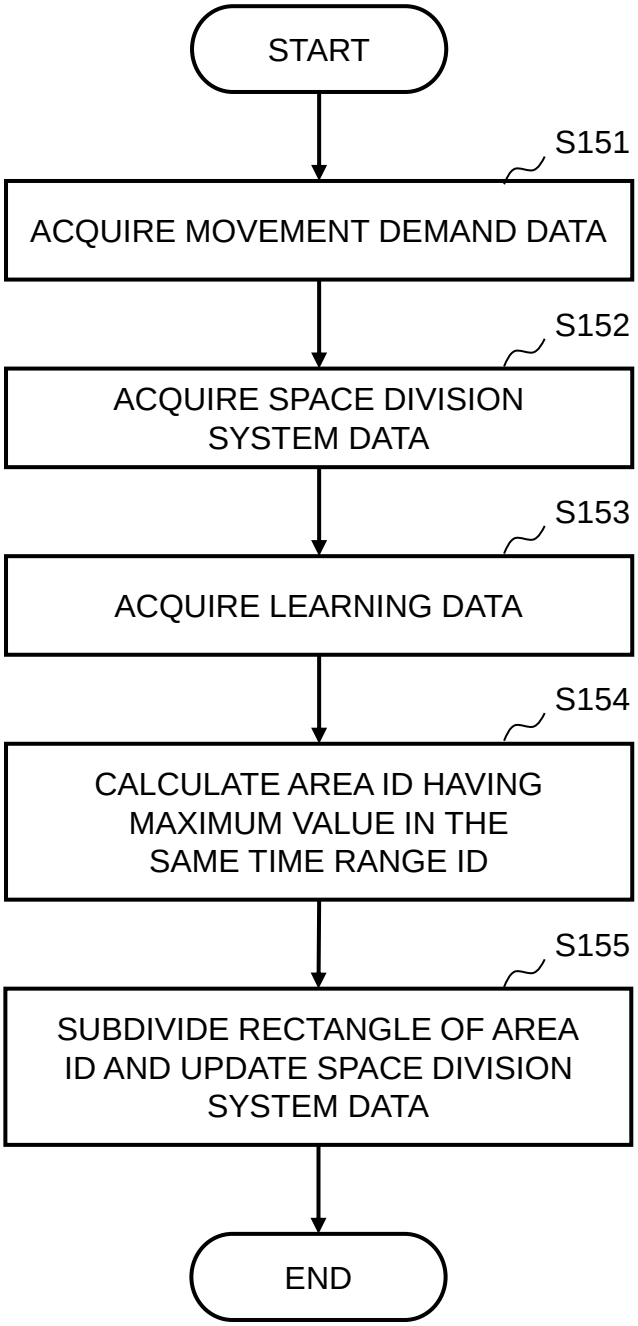
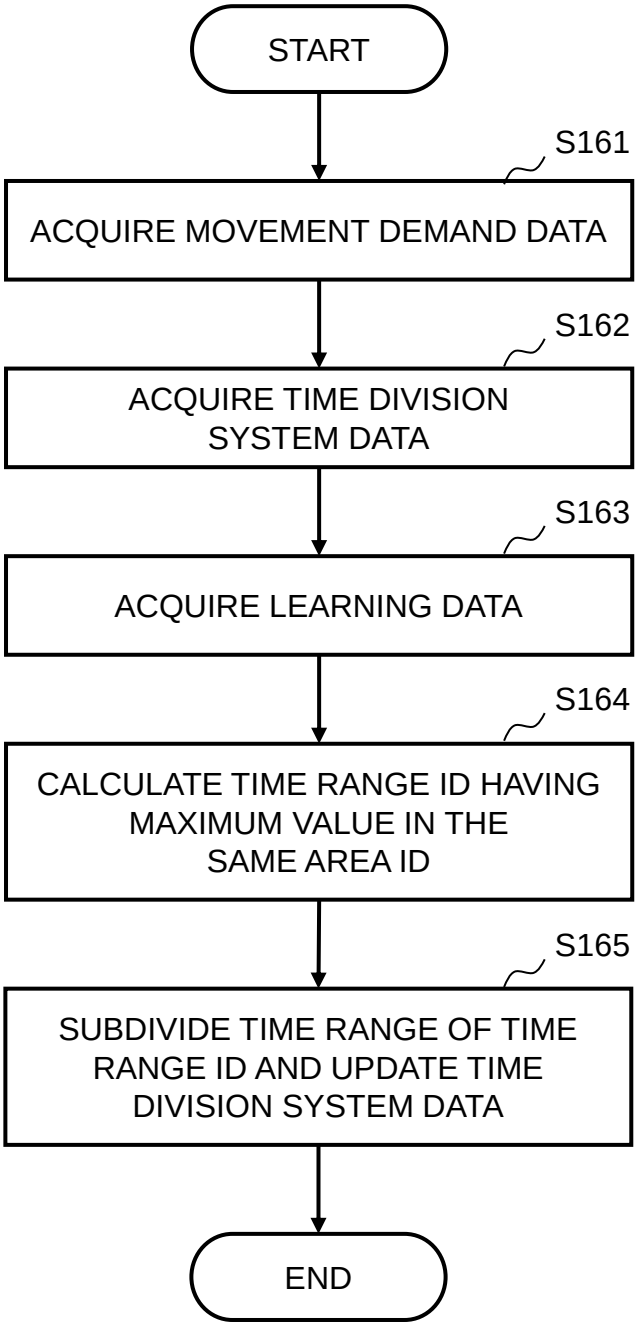

START
S151
ACQUIRE MOVEMENT DEMAND DATA
S152
ACQUIRE SPACE DIVISION SYSTEM DATA
S153
ACQUIRE LEARNING DATA
S154
CALCULATE AREA ID HAVING MAXIMUM VALUE IN THE SAME TIME RANGE ID
S155
SUBDIVIDE RECTANGLE OF AREA ID AND UPDATE SPACE DIVISION SYSTEM DATA
END

FIG. 10


START
S161
ACQUIRE MOVEMENT DEMAND DATA
S162
ACQUIRE TIME DIVISION SYSTEM DATA
S163
ACQUIRE LEARNING DATA
S164
CALCULATE TIME RANGE ID HAVING MAXIMUM VALUE IN THE SAME AREA ID
S165
SUBDIVIDE TIME RANGE OF TIME RANGE ID AND UPDATE TIME DIVISION SYSTEM DATA
END