FIG 1

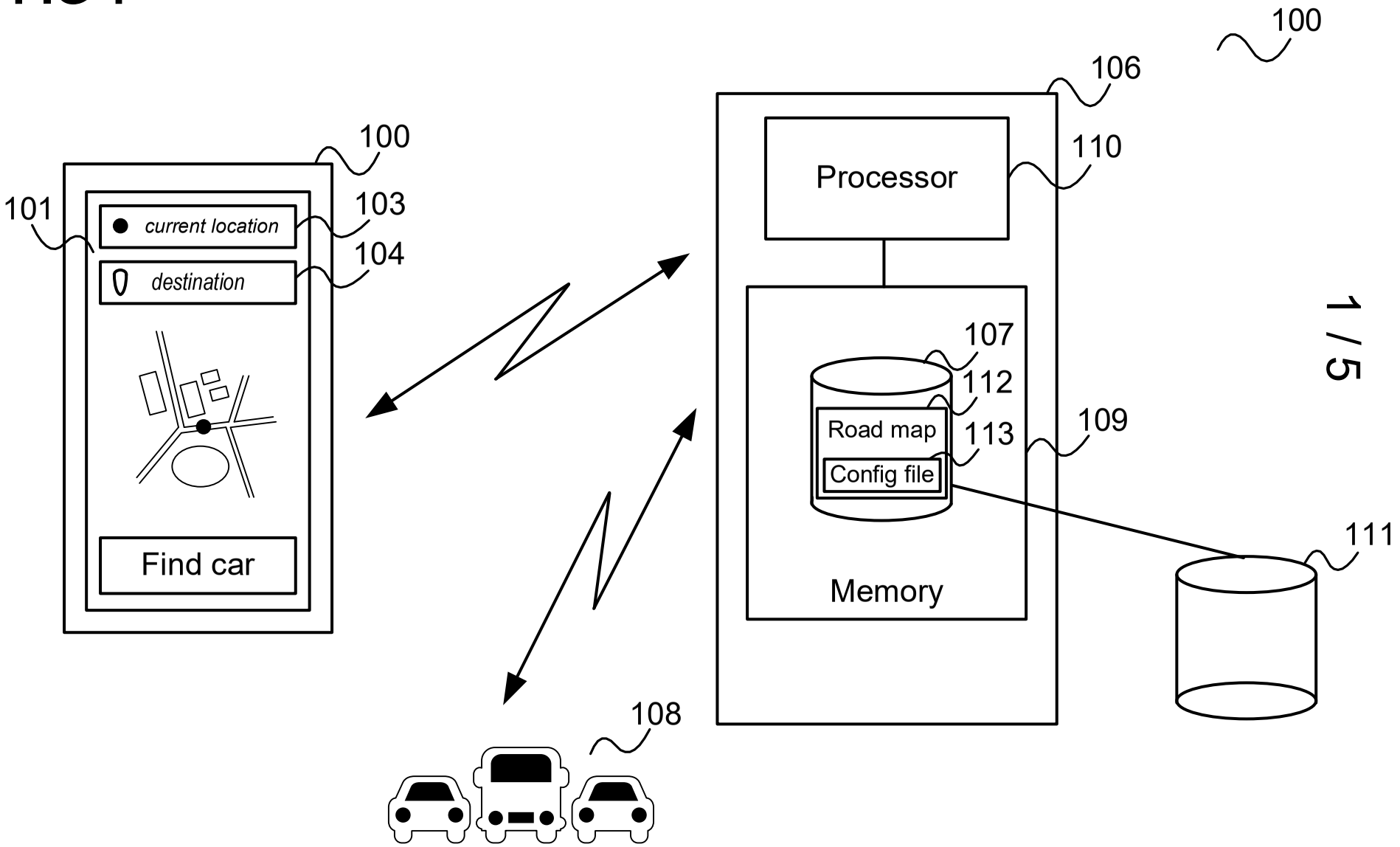

100
106
100
Processor
110
101
current location
103
destination
104
107
112
Road map
113
109
Config file
111
Find car
Memory
108

FIG 2

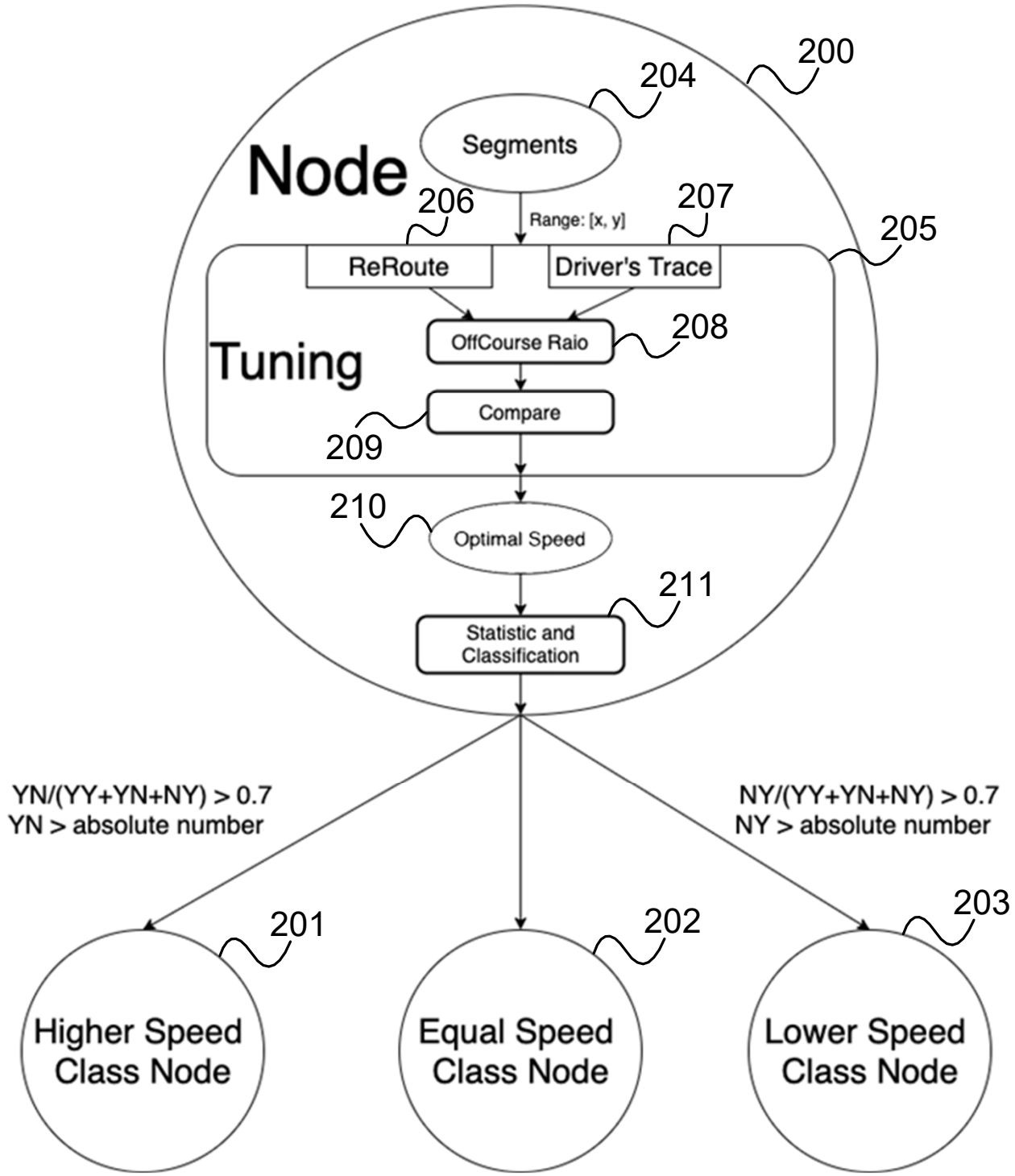

200
204
Segments
Node
206
207
Range: [x, y]
205
ReRoute
Driver's Trace
Tuning
208
OffCourse Raio
Compare
209
210
Optimal Speed
211
Statistic and Classification
YN/(YY+YN+NY) > 0.7
YN > absolute number
NY/(YY+YN+NY) > 0.7
NY > absolute number
201
202
203
Higher Speed Class Node
Equal Speed Class Node
Lower Speed Class Node

FIG 3

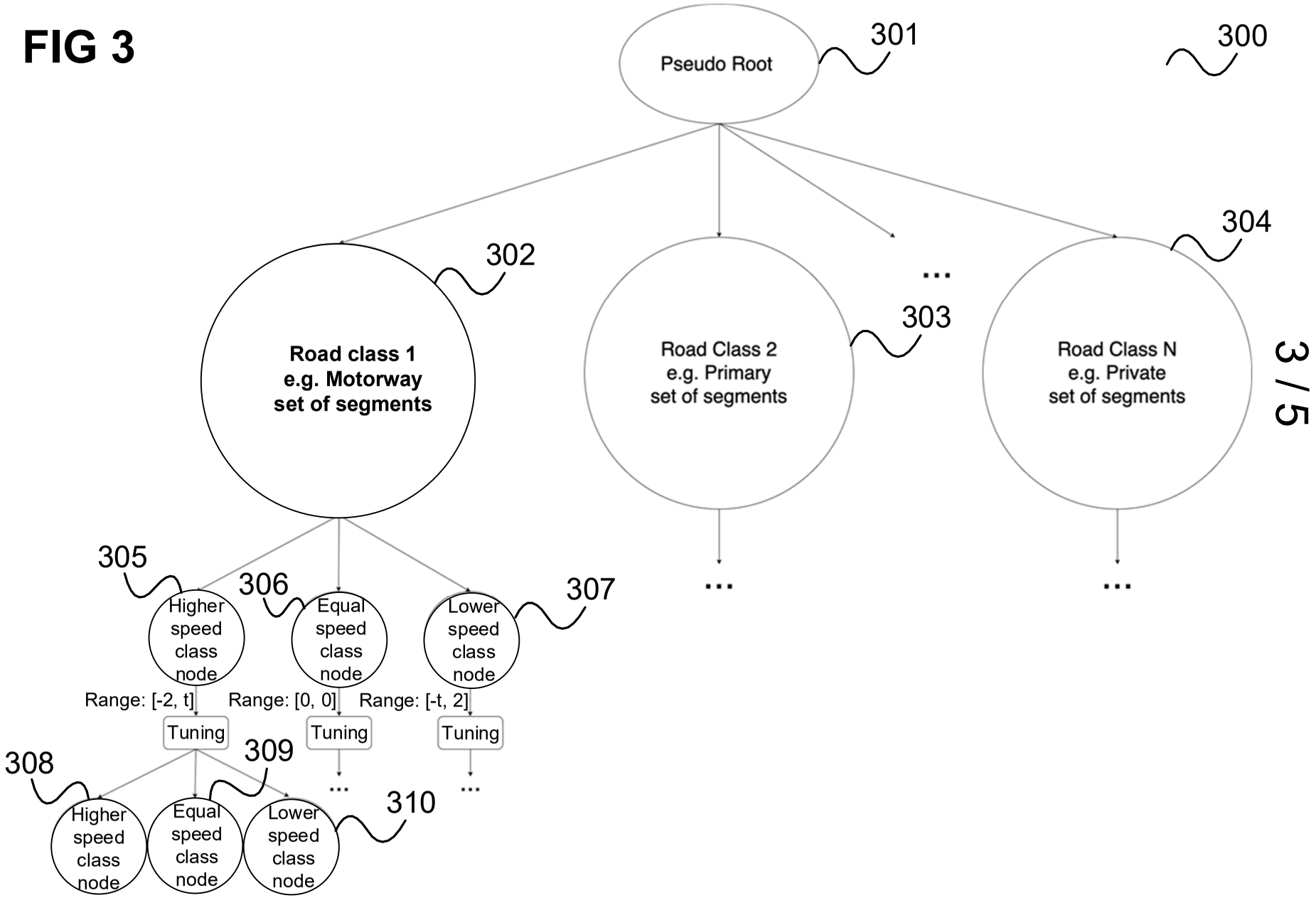
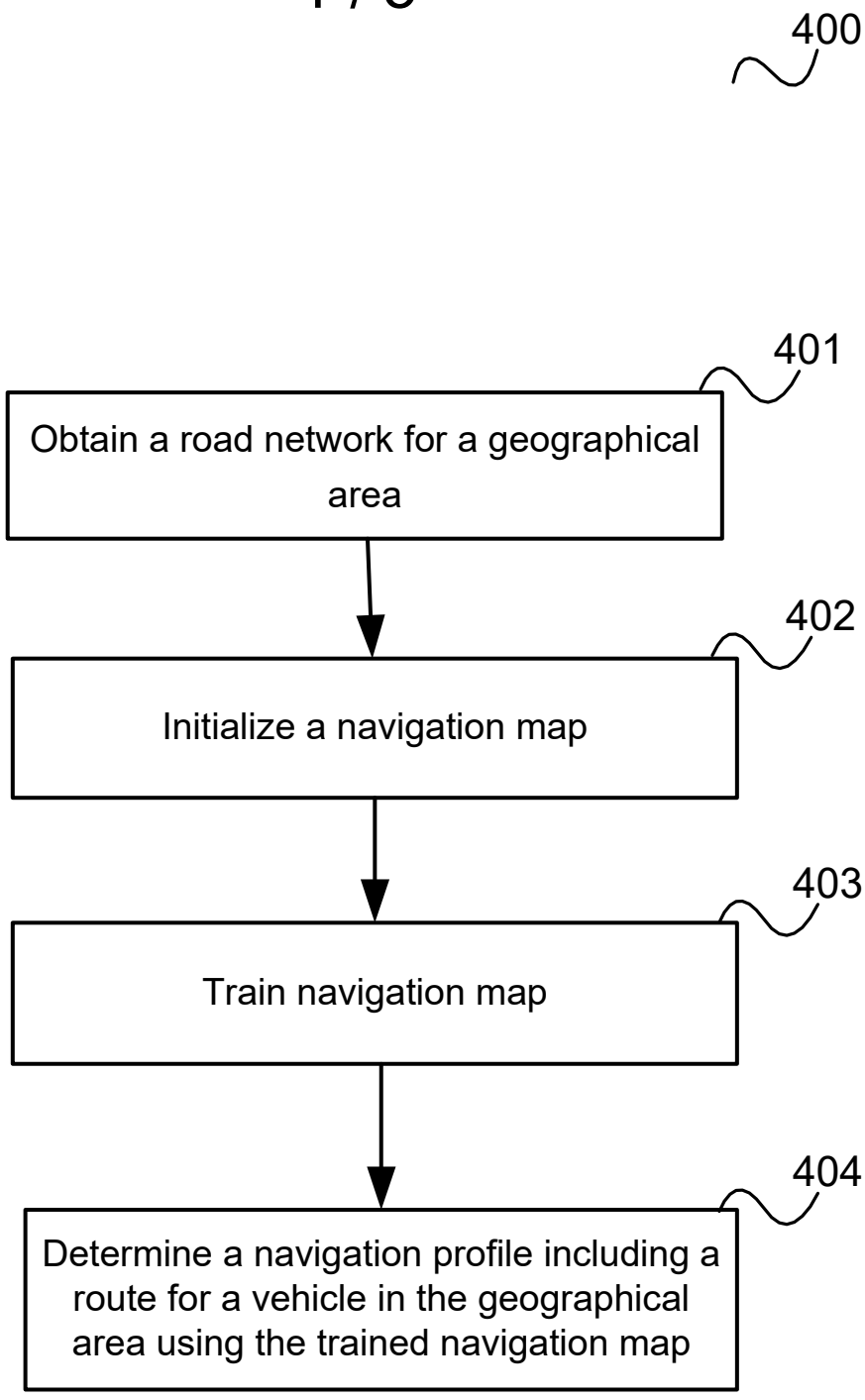

Pseudo Root
301
300
302
304
303
Road class 1
e.g. Motorway
set of segments
Road Class 2
e.g. Primary
set of segments
Road Class N
e.g. Private
set of segments
305
306
307
Higher speed class node
Equal speed class node
Lower speed class node
Range: [-2, t]
Range: [0, 0]
Range: [-t, 2]
Tuning
Tuning
Tuning
308
309
310
Higher speed class node
Equal speed class node
Lower speed class node

FIG 4


400
401
Obtain a road network for a geographical area
402
Initialize a navigation map
403
Train navigation map
404
Determine a navigation profile including a route for a vehicle in the geographical area using the trained navigation map

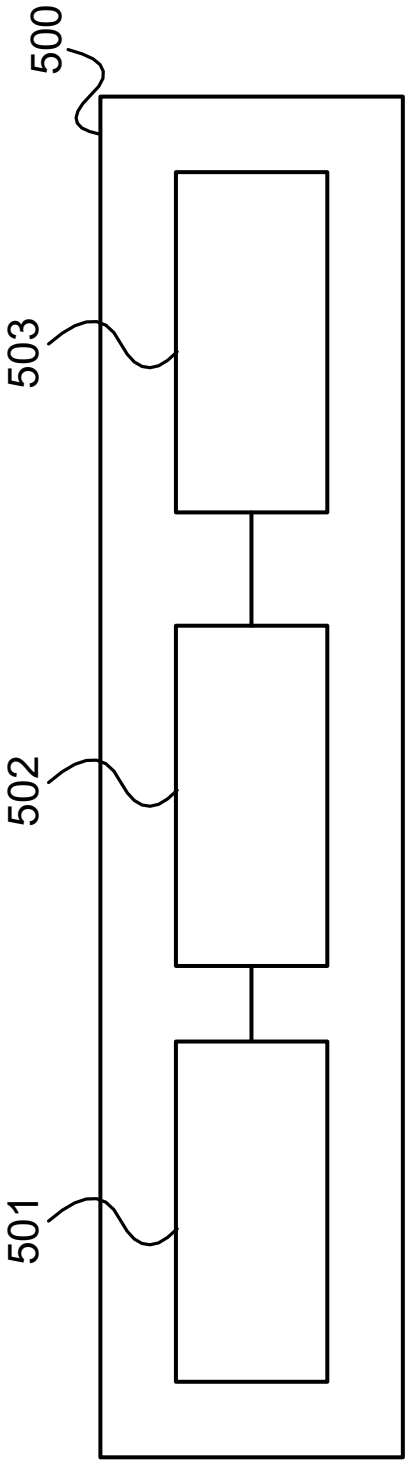


FIG 5