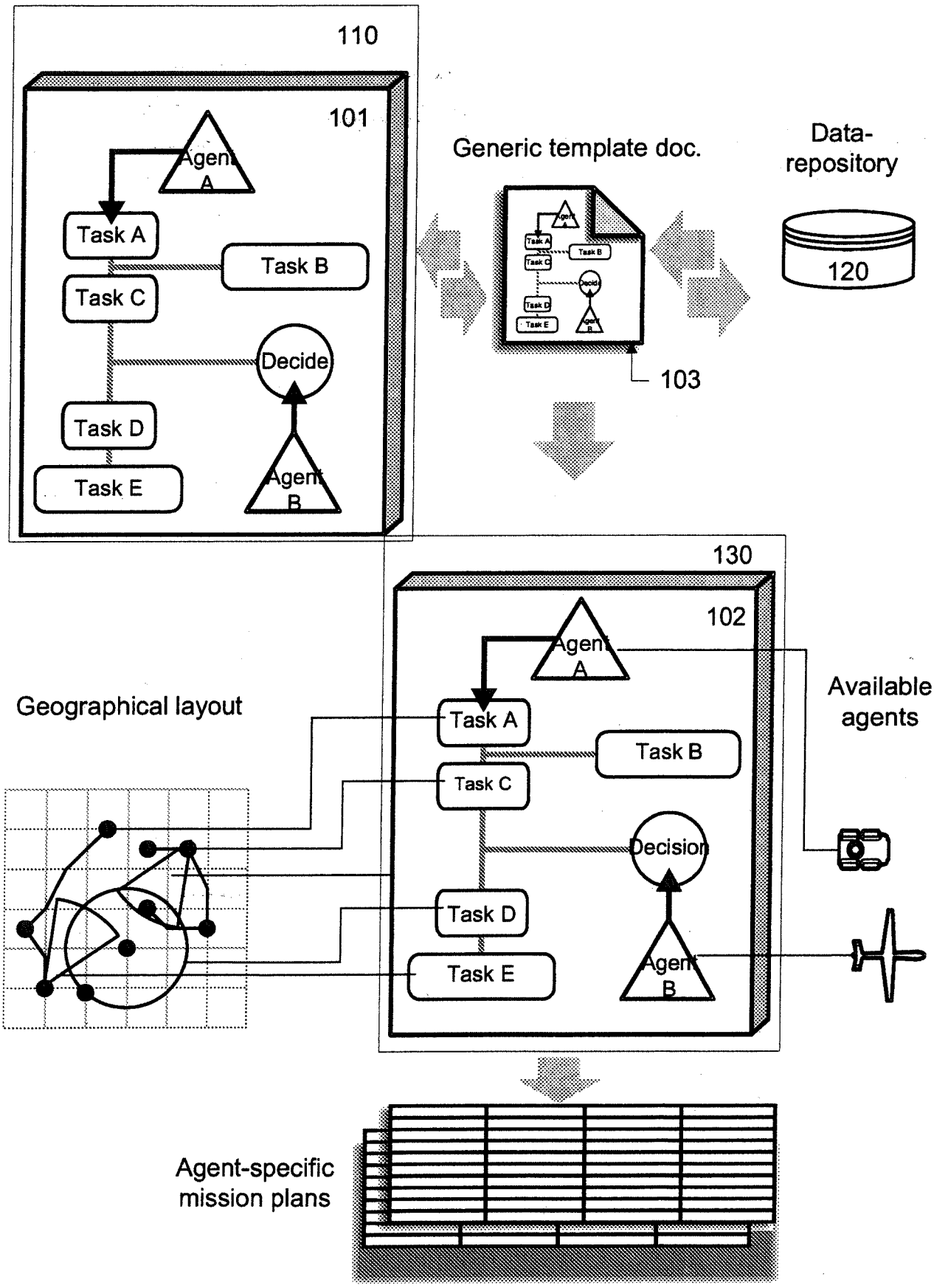
110
101
Agent A
Task A
Task B
Task C
Decide
Task D
Task E
Agent B
Generic template doc.
103
Data-repository
120
130
102
Agent A
Task A
Task B
Task C
Decision
Task D
Task E
Agent B
Available agents
Geographical layout
Agent-specific mission plans

Fig.1

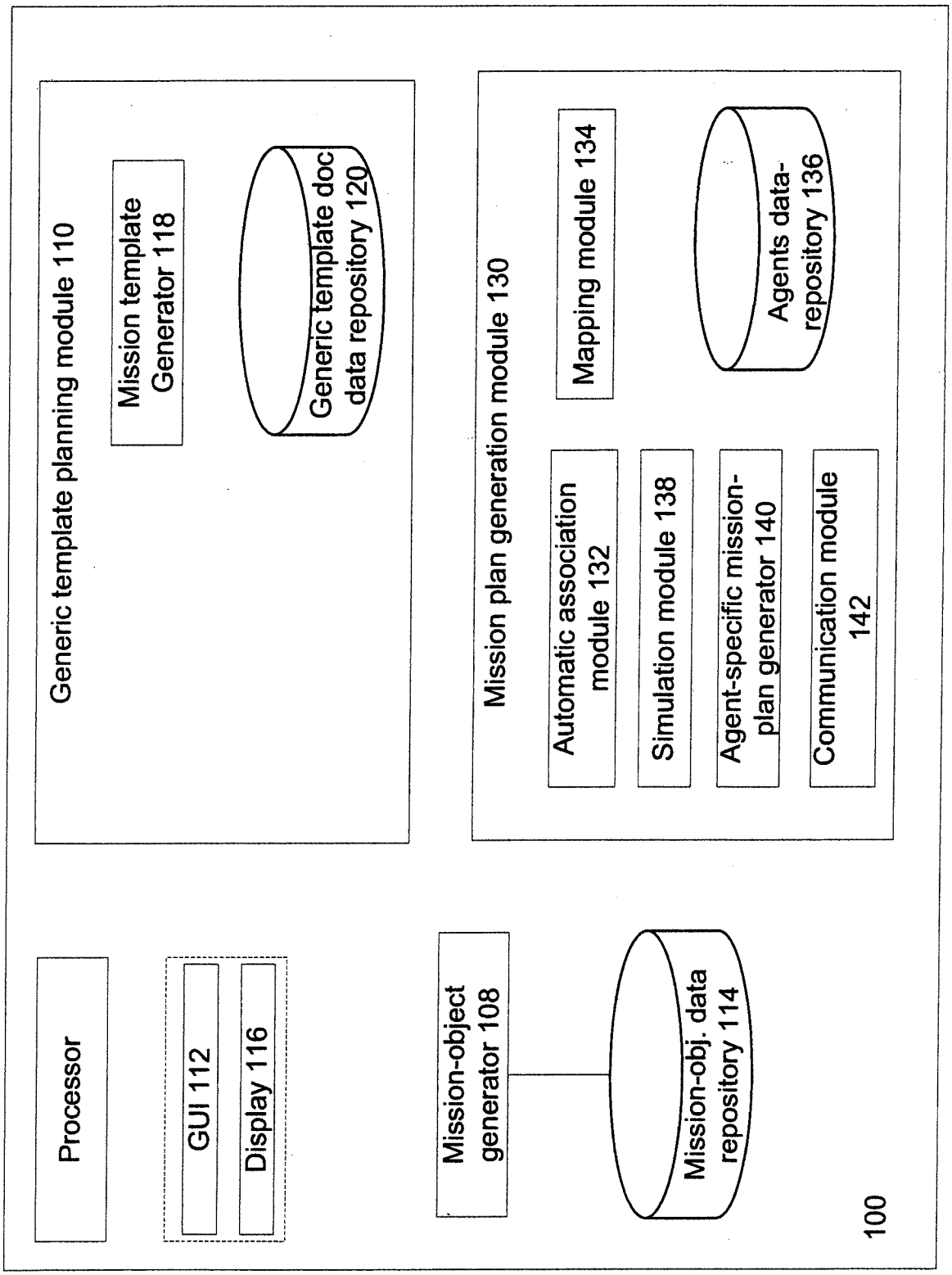
Generic template planning module 110
Mission template Generator 118
Generic template doc data repository 120
Mission plan generation module 130
Automatic association module 132
Mapping module 134
Simulation module 138
Agent-specific mission-plan generator 140
Agents data-repository 136
Communication module 142
Processor
GUI 112
Display 116
Mission-object generator 108
Mission-obj. data repository 114
100

Fig. 2

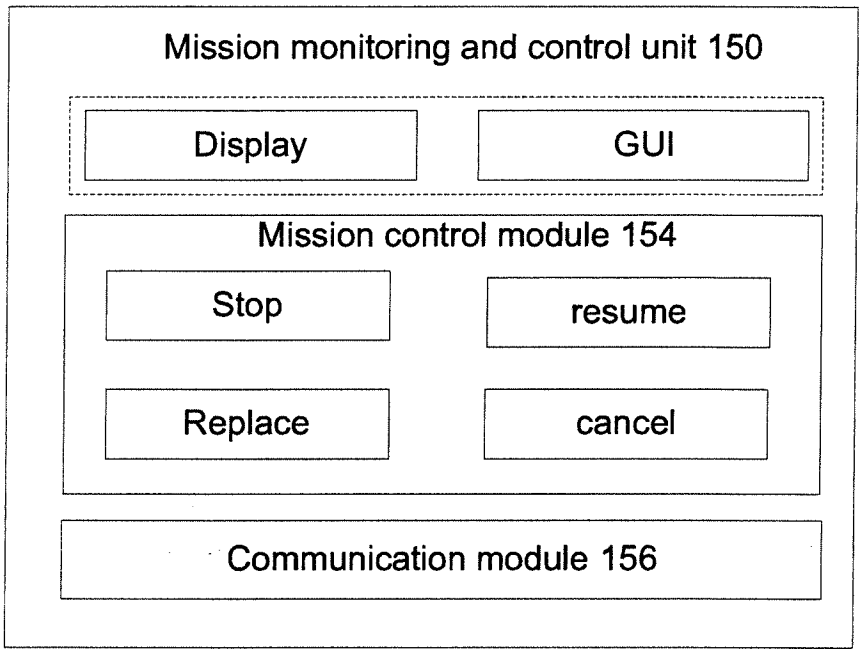
Mission monitoring and control unit 150
Display
GUI
Mission control module 154
Stop
resume
Replace
cancel
Communication module 156

Fig. 3

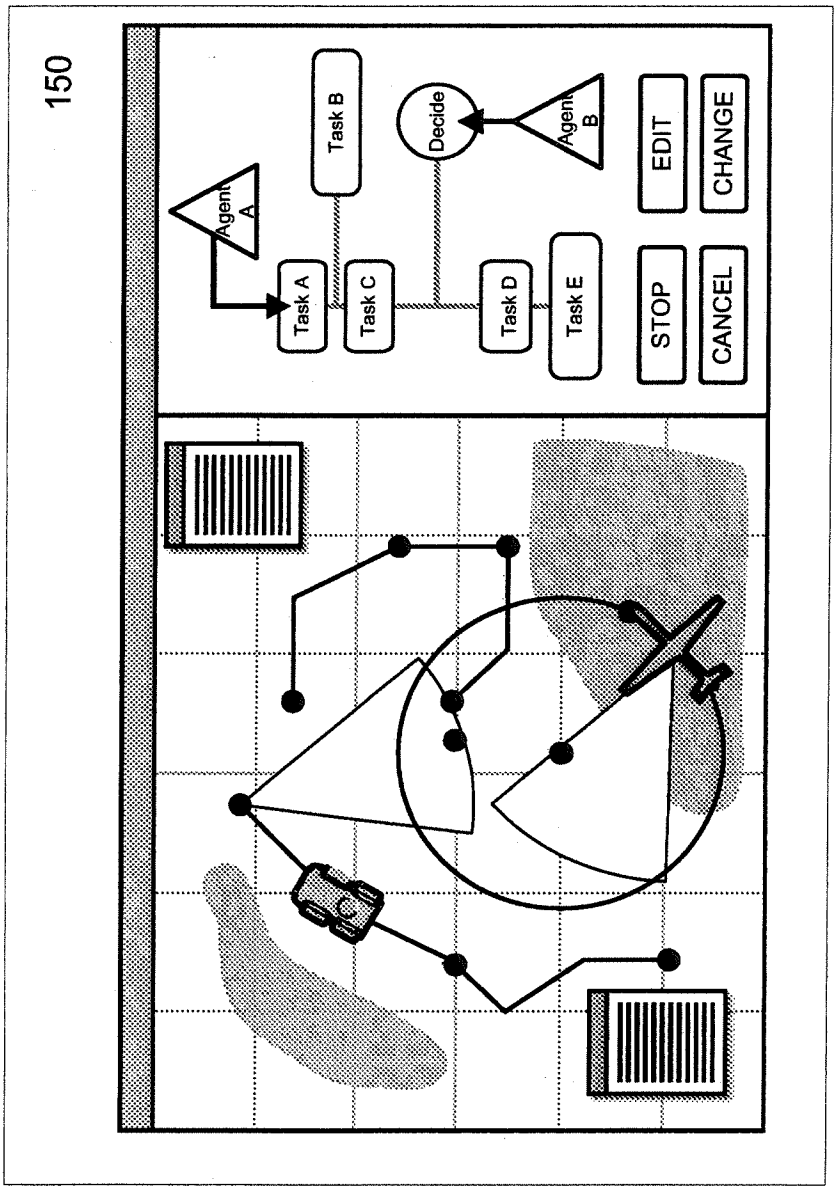
150
Agent A
Task A
Task B
Task C
Task D
Task E
Decide
Agent B
STOP
CANCEL
EDIT
CHANGE

Fig. 4

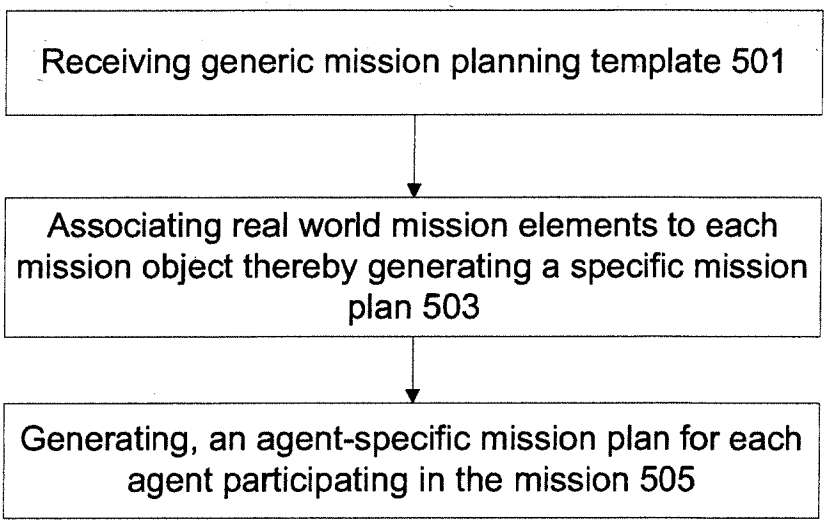
Receiving generic mission planning template 501
Associating real world mission elements to each mission object thereby generating a specific mission plan 503
Generating, an agent-specific mission plan for each agent participating in the mission 505

Fig. 5

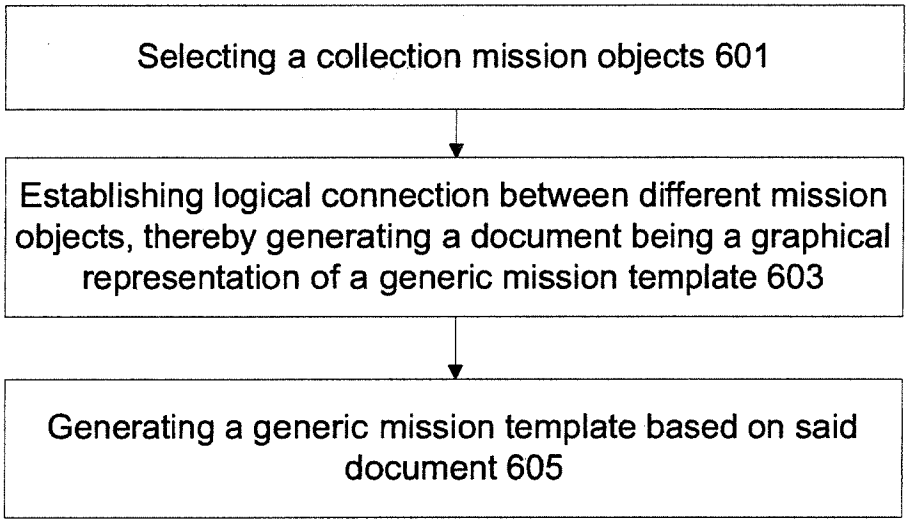
Selecting a collection mission objects 601
Establishing logical connection between different mission objects, thereby generating a document being a graphical representation of a generic mission template 603
Generating a generic mission template based on said document 605

Fig. 6

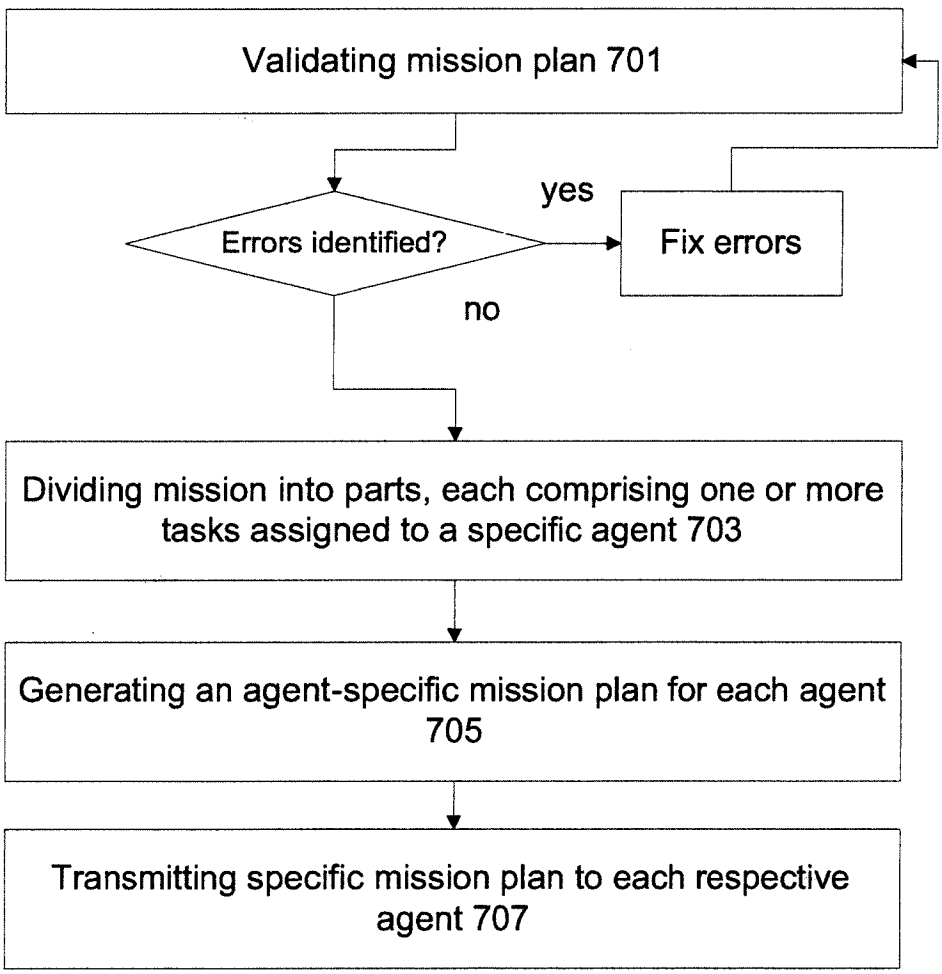
Validating mission plan 701
Errors identified?
yes
Fix errors
no
Dividing mission into parts, each comprising one or more tasks assigned to a specific agent 703
Generating an agent-specific mission plan for each agent 705
Transmitting specific mission plan to each respective agent 707

Fig. 7

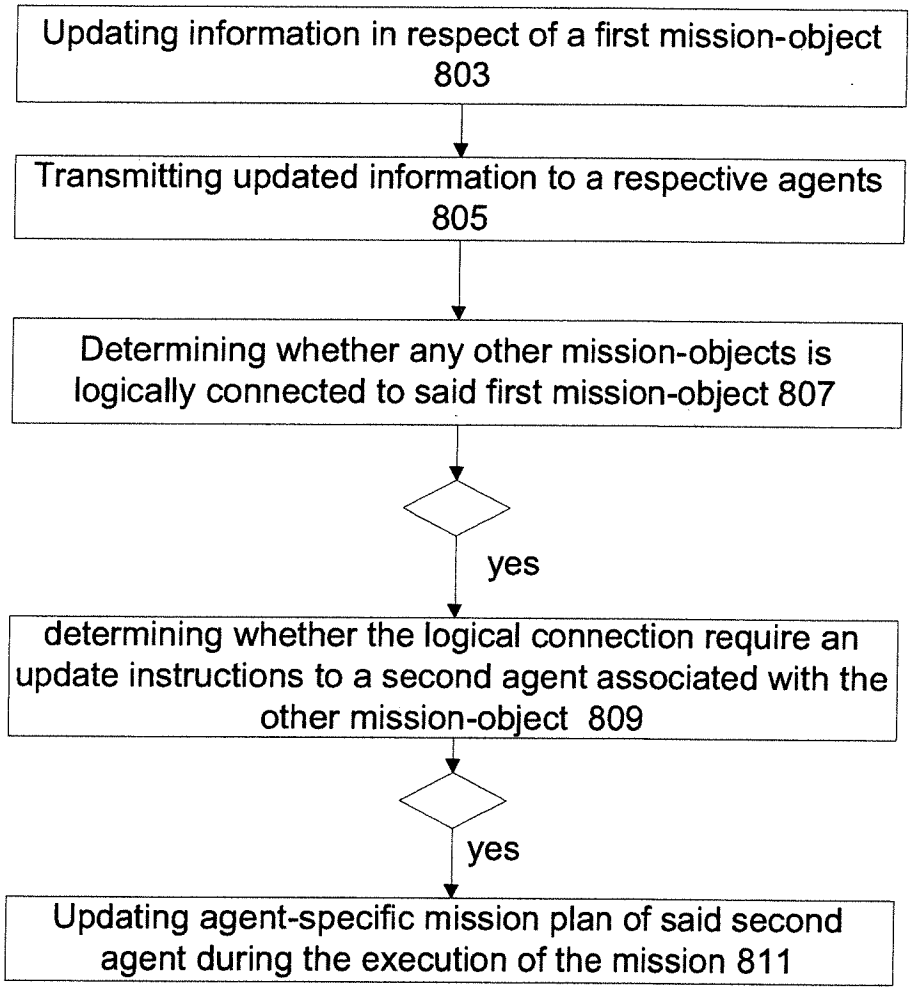
Updating information in respect of a first mission-object 803
Transmitting updated information to a respective agents 805
Determining whether any other mission-objects is logically connected to said first mission-object 807
yes
determining whether the logical connection require an update instructions to a second agent associated with the other mission-object 809
yes
Updating agent-specific mission plan of said second agent during the execution of the mission 811

Fig. 8