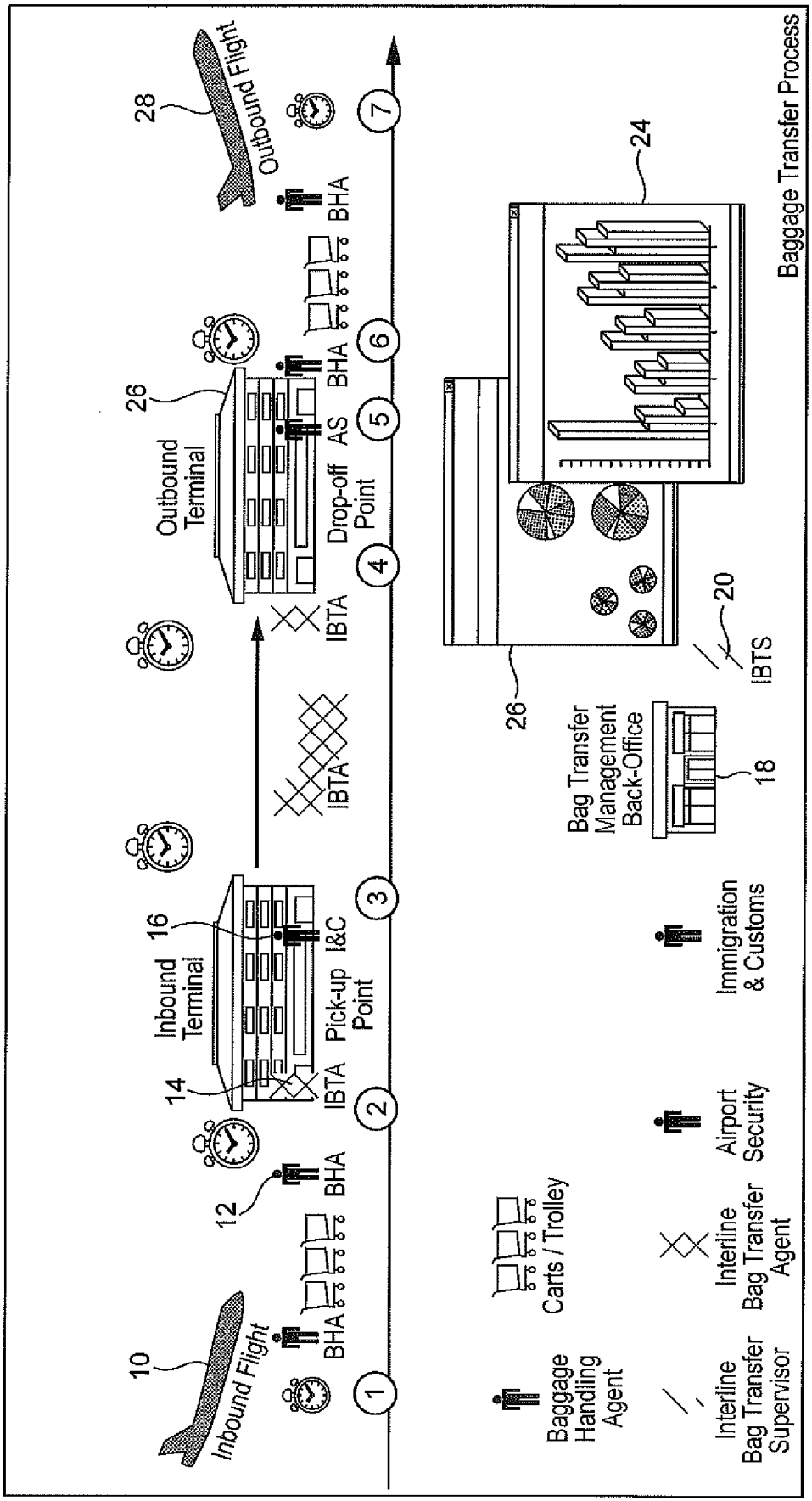
Inbound Flight
10
BHA
12
BHA
14
IBTA
Inbound Terminal
16
Pick-up Point
I&C
IBTA
IBTA
Outbound Terminal
26
Drop-off Point
AS
BHA
BHA
28
Outbound Flight
1
2
3
4
5
6
7
Baggage Handling Agent
Carts / Trolley
Interline Bag Transfer Supervisor
Interline Bag Transfer Agent
Airport Security
Immigration & Customs
Bag Transfer Management Back-Office
18
26
20
IBTS
24
Baggage Transfer Process

FIG. 1

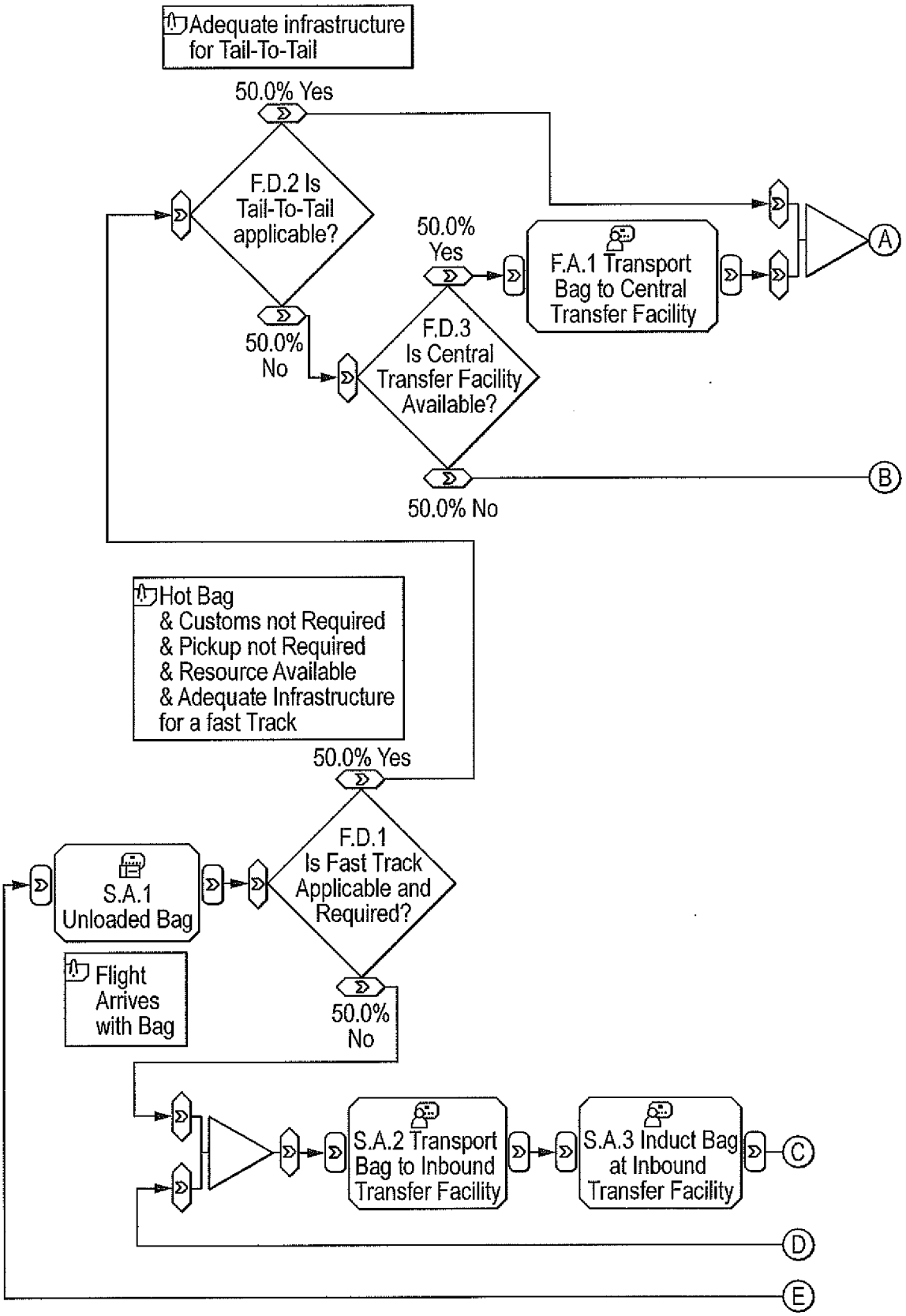
Adequate infrastructure for Tail-To-Tail
50.0% Yes
F.D.2 Is Tail-To-Tail applicable?
50.0% No
50.0% Yes
F.A.1 Transport Bag to Central Transfer Facility
A
F.D.3 Is Central Transfer Facility Available?
50.0% No
B
Hot Bag & Customs not Required & Pickup not Required & Resource Available & Adequate Infrastructure for a fast Track
50.0% Yes
F.D.1 Is Fast Track Applicable and Required?
S.A.1 Unloaded Bag
Flight Arrives with Bag
50.0% No
S.A.2 Transport Bag to Inbound Transfer Facility
S.A.3 Induct Bag at Inbound Transfer Facility
C
D
E

FIG. 2a

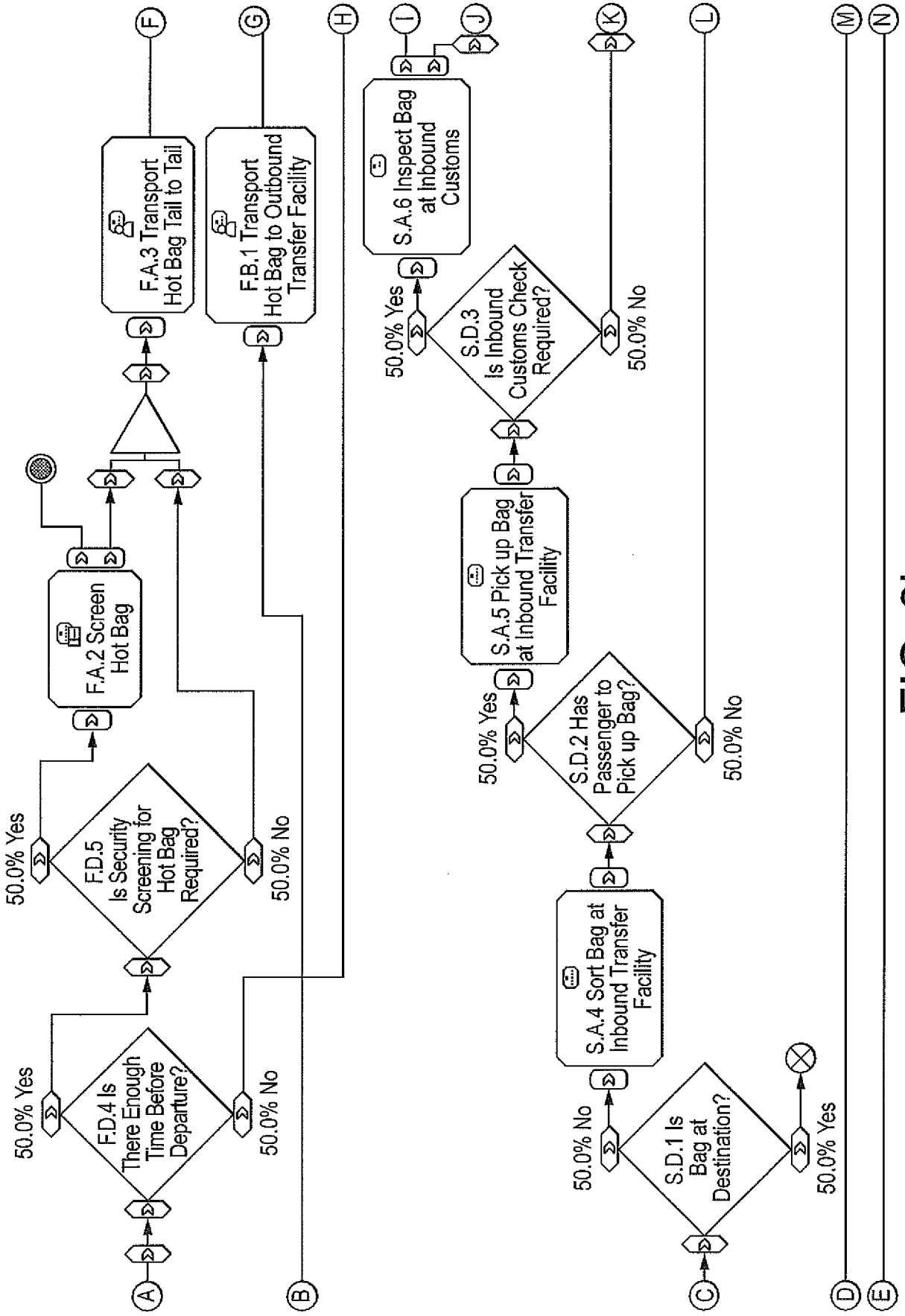
A
B
C
D
E
F
G
H
I
J
K
L
M
N
F.D.4 Is There Enough Time Before Departure?
50.0% Yes
50.0% No
F.D.5 Is Security Screening for Hot Bag Required?
50.0% Yes
50.0% No
F.A.2 Screen Hot Bag
F.A.3 Transport Hot Bag Tail to Tail
F.B.1 Transport Hot Bag to Outbound Transfer Facility
S.D.1 Is Bag at Destination?
50.0% No
50.0% Yes
S.A.4 Sort Bag at Inbound Transfer Facility
S.D.2 Has Passenger to Pick up Bag?
50.0% Yes
50.0% No
S.A.5 Pick up Bag at Inbound Transfer Facility
S.D.3 Is Inbound Customs Check Required?
50.0% Yes
50.0% No
S.A.6 Inspect Bag at Inbound Customs

FIG. 2b

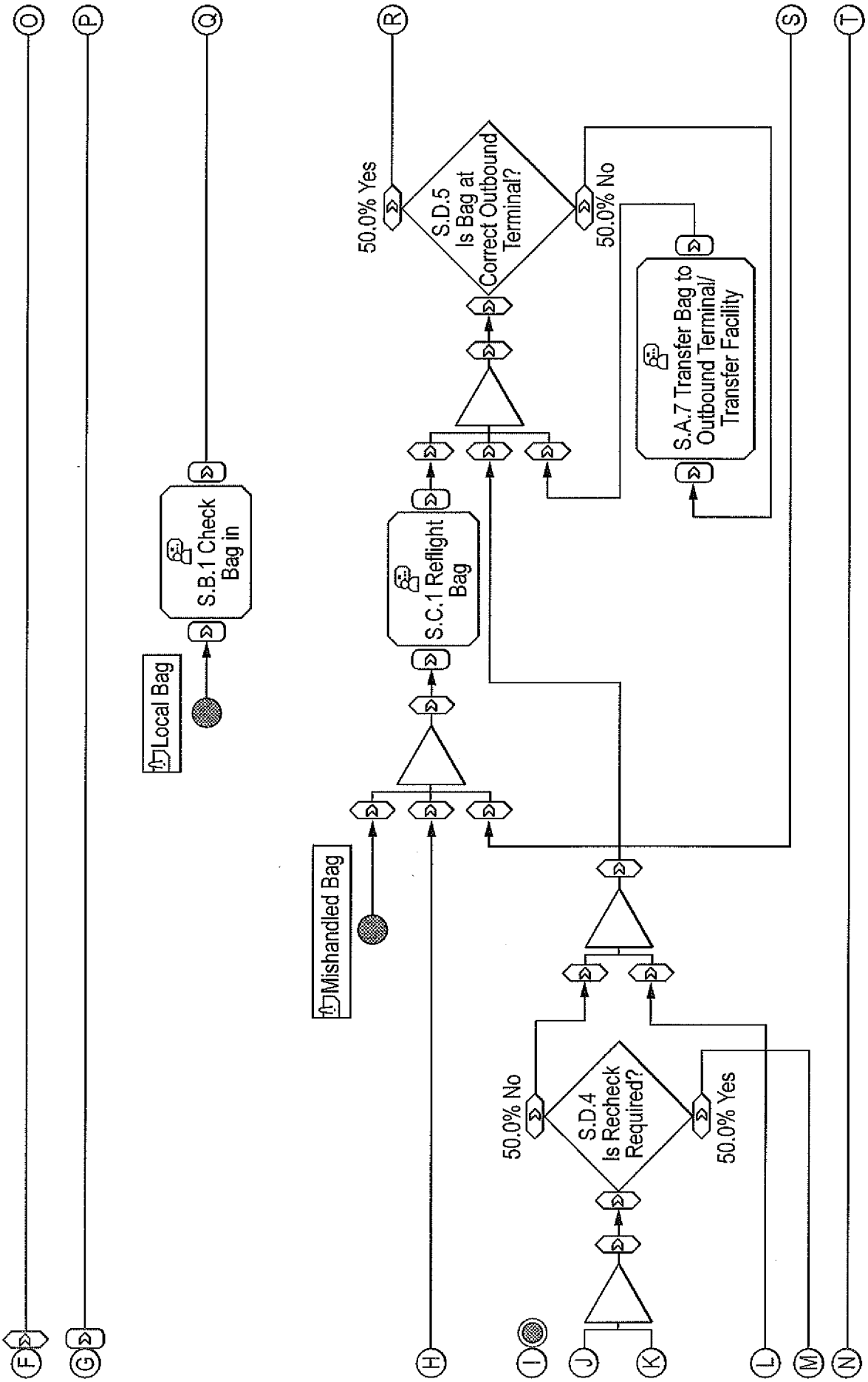
O
P
Q
R
S
T
F
G
H
I
J
K
L
M
N
Local Bag
S.B.1 Check Bag in
Mishandled Bag
S.C.1 Reflight Bag
50.0% Yes
S.D.5 Is Bag at Correct Outbound Terminal?
50.0% No
S.A.7 Transfer Bag to Outbound Terminal/ Transfer Facility
50.0% No
S.D.4 Is Recheck Required?
50.0% Yes

FIG. 2c

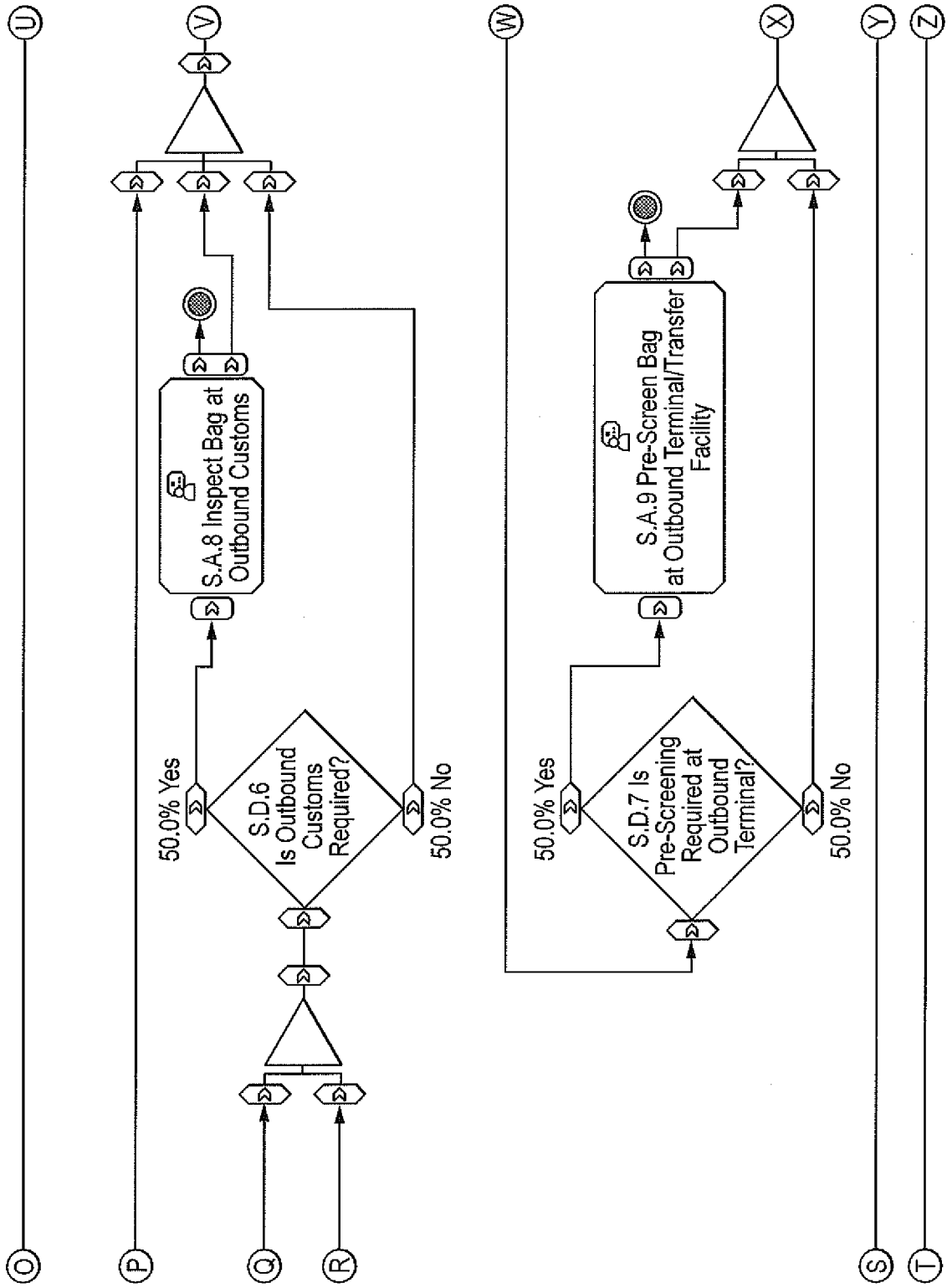
U
V
W
X
Y
Z
S.A.8 Inspect Bag at Outbound Customs
S.A.9 Pre-Screen Bag at Outbound Terminal/Transfer Facility
S.D.6 Is Outbound Customs Required?
S.D.7 Is Pre-Screening Required at Outbound Terminal?
50.0% Yes
50.0% No
50.0% Yes
50.0% No
O
P
Q
R
S
T

FIG. 2d

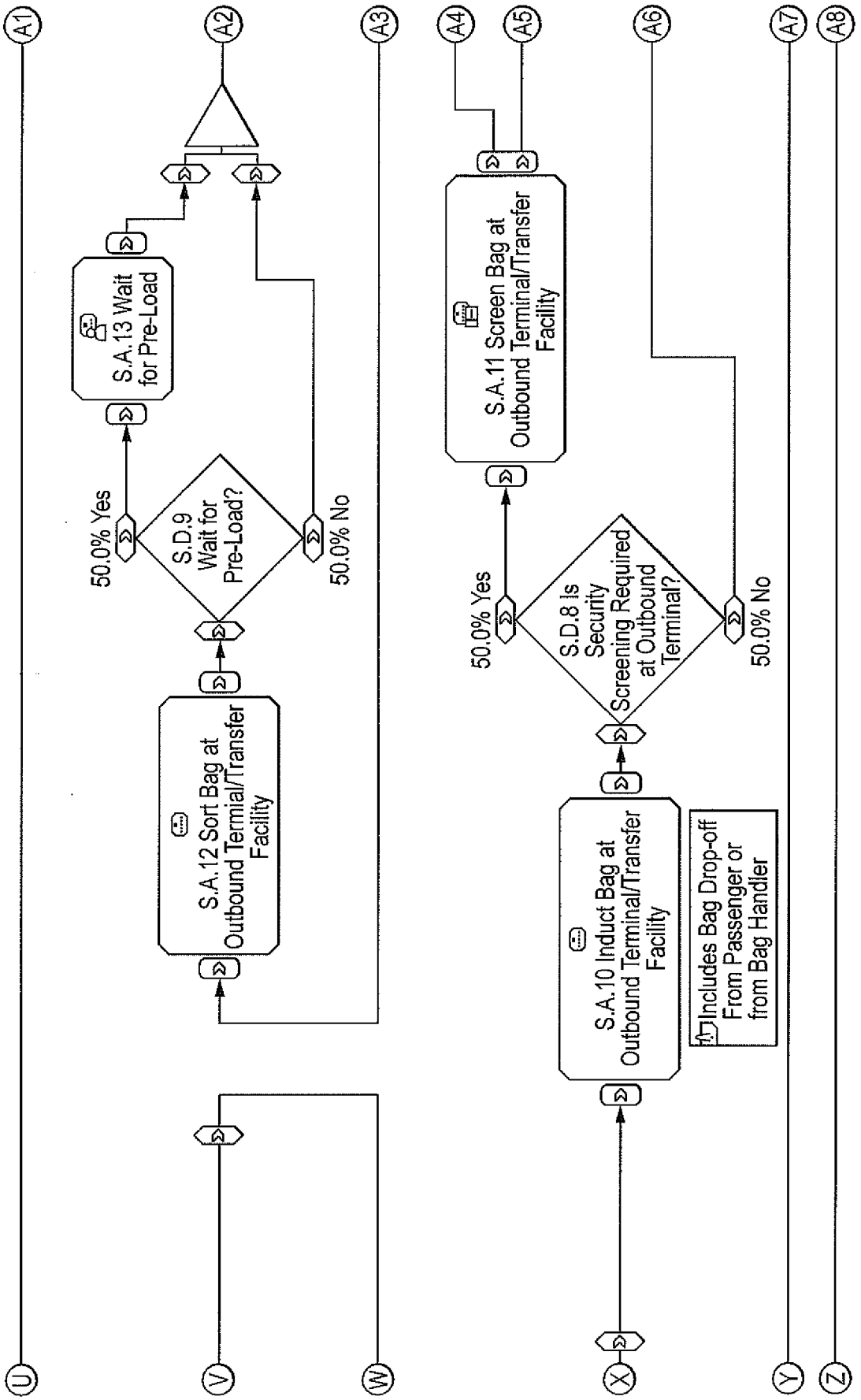
A1
A2
A3
A4
A5
A6
A7
A8
U
V
W
X
Y
Z
S.A.13 Wait for Pre-Load
S.D.9 Wait for Pre-Load?
50.0% Yes
50.0% No
S.A.12 Sort Bag at Outbound Termial/Transfer Facility
S.A.11 Screen Bag at Outbound Terminal/Transfer Facility
S.D.8 Is Security Screening Required at Outbound Terminal?
50.0% Yes
50.0% No
S.A.10 Induct Bag at Outbound Terminal/Transfer Facility
Includes Bag Drop-off From Passenger or from Bag Handler

FIG. 2e

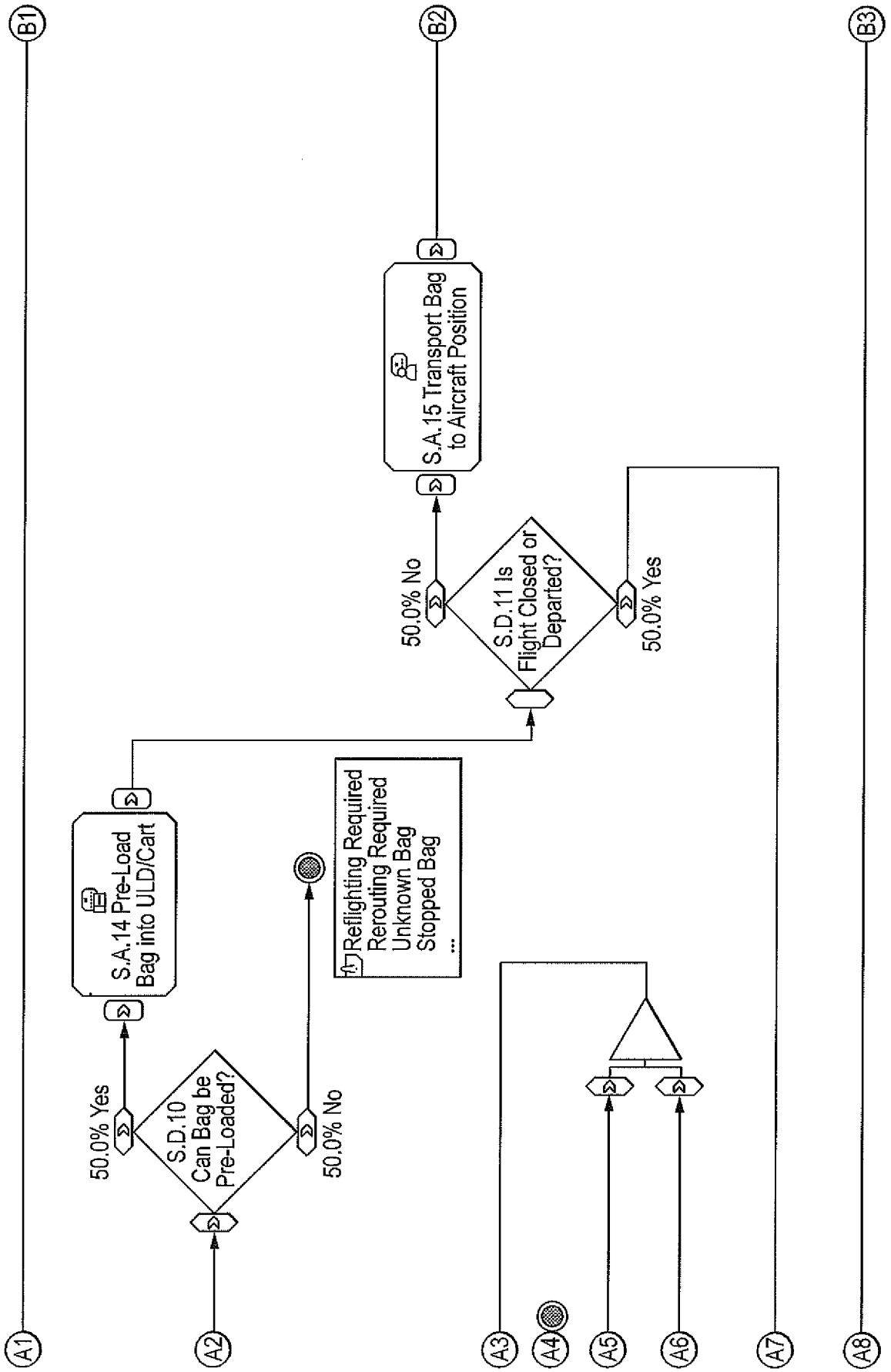
B1
B2
B3
A1
A2
A3
A4
A5
A6
A7
A8
S.A.14 Pre-Load Bag into ULD/Cart
S.A.15 Transport Bag to Aircraft Position
S.D.10 Can Bag be Pre-Loaded?
S.D.11 Is Flight Closed or Departed?
50.0% Yes
50.0% No
50.0% No
50.0% Yes
Reflighting Required
Rerouting Required
Unknown Bag
Stopped Bag
...

FIG. 2f

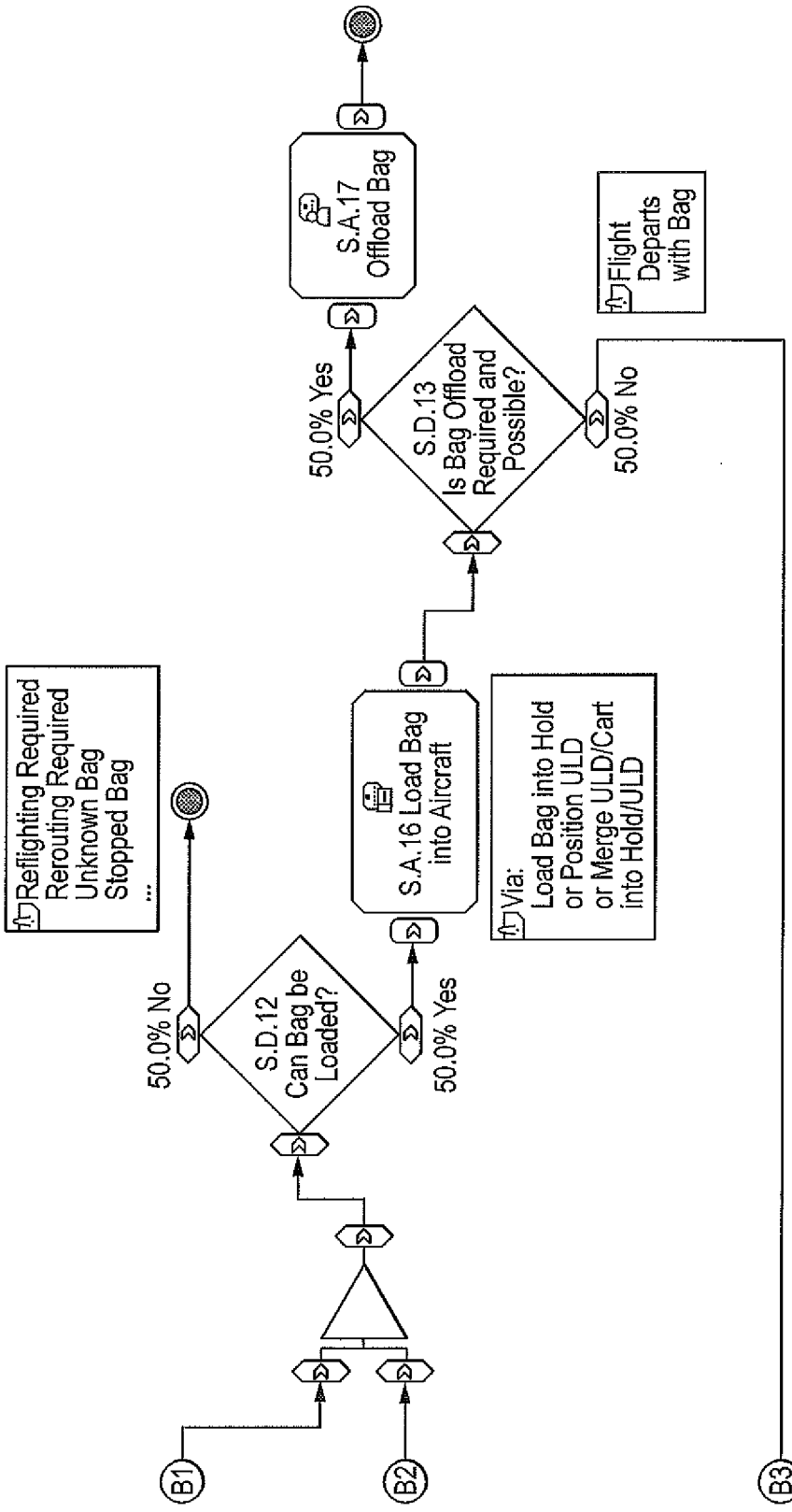
B1
B2
B3
S.D.12
Can Bag be
Loaded?
50.0% No
50.0% Yes
Reflighting Required
Rerouting Required
Unknown Bag
Stopped Bag
...
S.A.16 Load Bag
into Aircraft
Via:
Load Bag into Hold
or Position ULD
or Merge ULD/Cart
into Hold/ULD
S.D.13
Is Bag Offload
Required and
Possible?
50.0% Yes
50.0% No
S.A.17
Offload Bag
Flight
Departs
with Bag

FIG. 2g

Sequence	Global Baggage Process Activity List	LHR Type 1: T3 Arrival Excluding Air Canada & Singapore Airlines (5 AM to 5 PM)	LHR Type 2: T1 Arrival & T3 Arrival (Air Canada)	LHR Type 3: T3 Arrival - Singapore Airlines (5 AM to 5 PM)
1	Prepare for Unload	x	x	x
2	Unload Bag	x	x	x
3	Reclaim Bag			
4	Recheck Bag			
5	Screen Bag			
6	Input Bag (Inbound Terminal)	x	x	x
7	Sort Bag (Inbound Terminal)	x	x	x
8	Input Bag (Outbound Terminal)	o	o	o
9	Sort Bag (Outbound Terminal)	o	o	o
10	Preload Bag	o	o	o
11	Load Bag	x	x	x

x Manatory Activities

o Optional Activities

FIG. 3

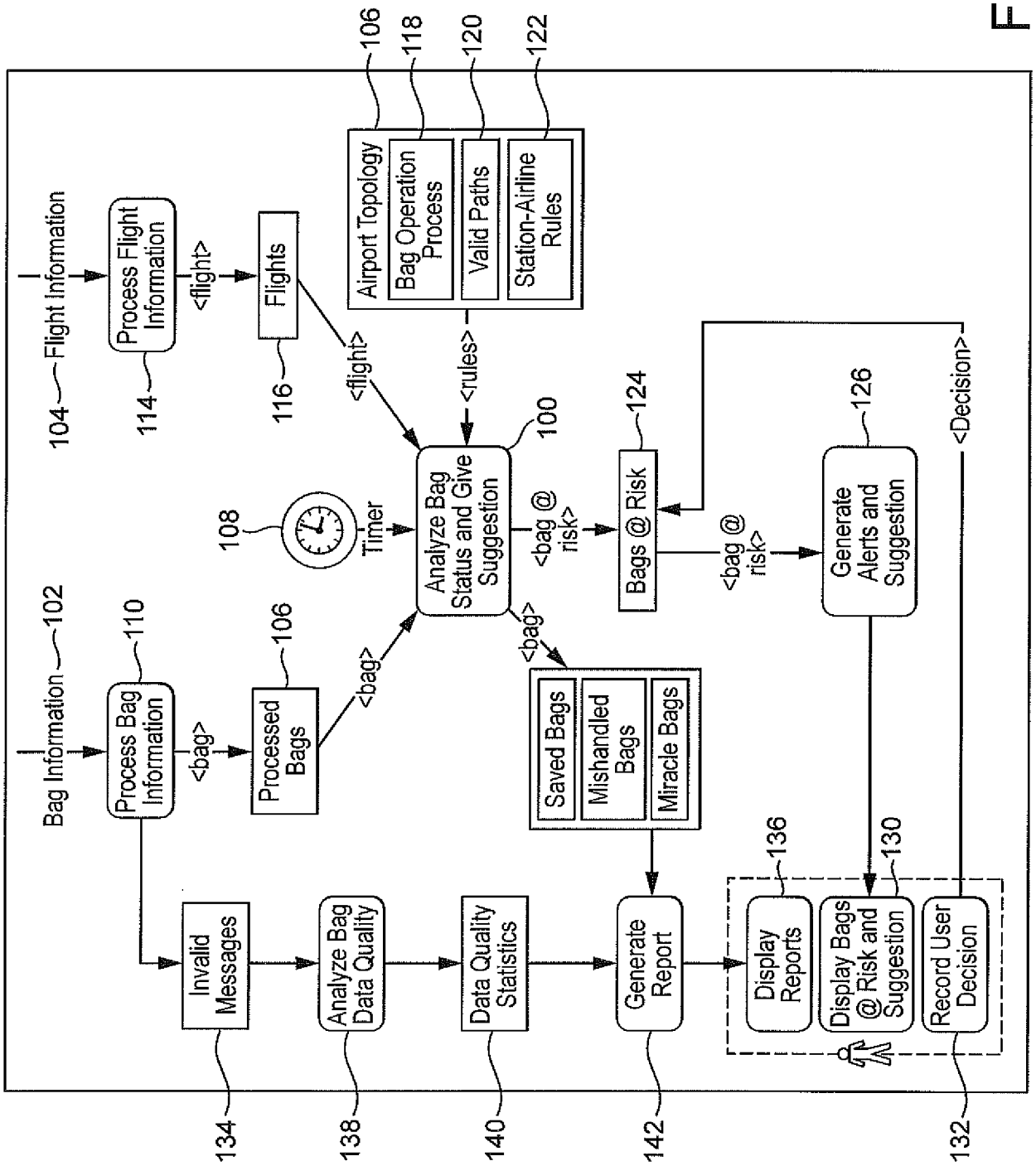
Flight Information
104
Process Flight Information
114
<flight>
Flights
116
Airport Topology
106
Bag Operation Process
118
Valid Paths
120
Station-Airline Rules
122
<flight>
<rules>
Bag Information
102
Process Bag Information
110
<bag>
Processed Bags
106
<bag>
Timer
108
Analyze Bag Status and Give Suggestion
100
<bag @ risk>
Bags @ Risk
124
<bag @ risk>
Generate Alerts and Suggestion
126
<Decision>
<bag>
Saved Bags
Mishandled Bags
Miracle Bags
Invalid Messages
134
Analyze Bag Data Quality
138
Data Quality Statistics
140
Generate Report
142
Display Reports
136
Display Bags @ Risk and Suggestion
130
Record User Decision
132

FIG. 4

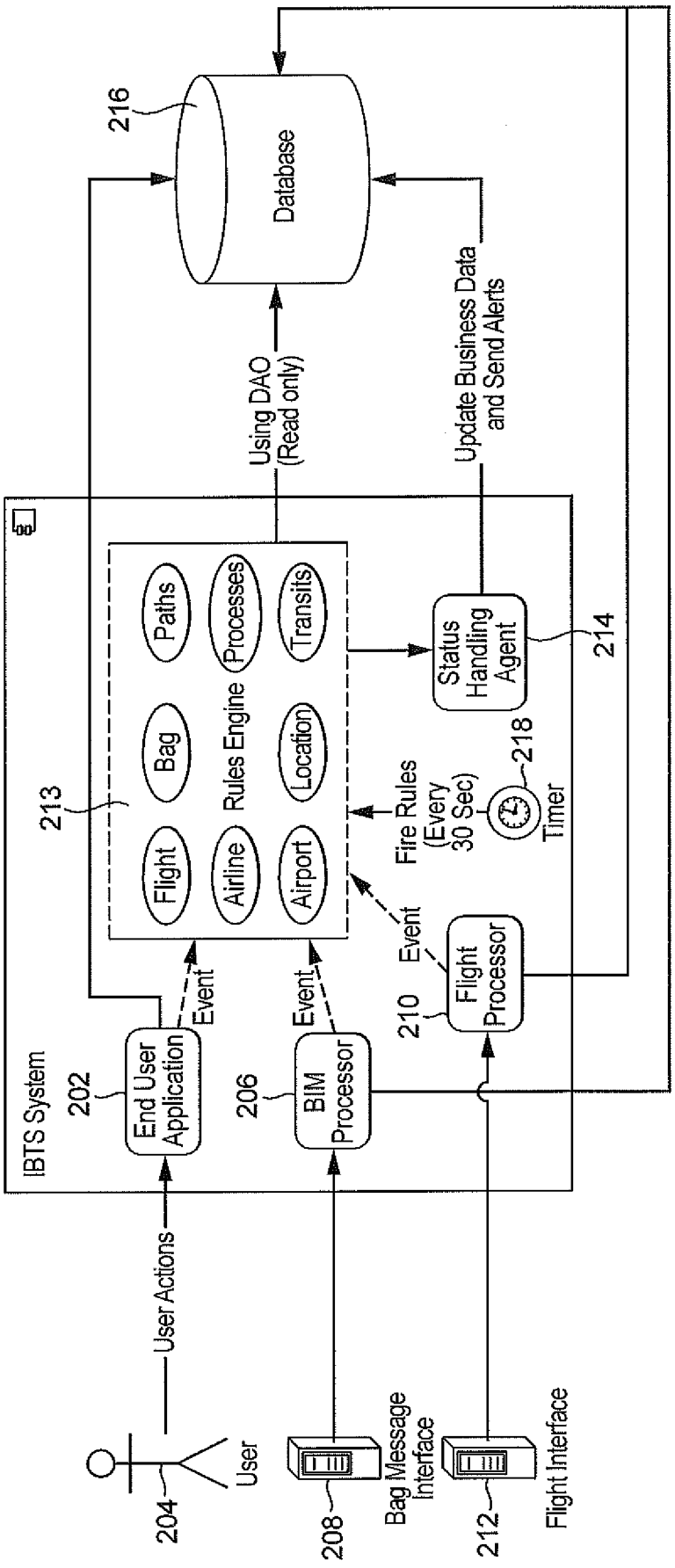
216
Database
Using DAO
(Read only)
Update Business Data
and Send Alerts
IBTS System
213
Rules Engine
Flight
Airline
Airport
Bag
Location
Paths
Processes
Transits
Fire Rules
(Every
30 Sec)
218
Timer
Status
Handling
Agent
214
Event
Event
Event
202
End User
Application
206
BIM
Processor
210
Flight
Processor
User Actions
User
204
Bag Message
Interface
208
Flight Interface
212

FIG. 5

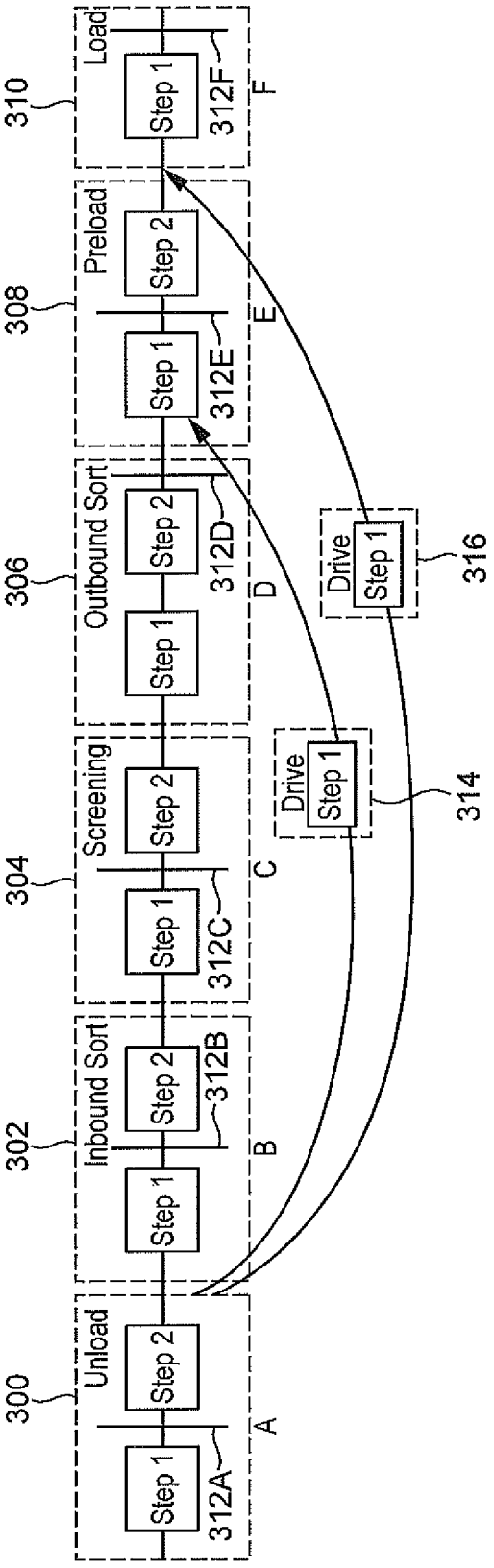
300
Unload
Step 2
Step 1
312A
A
302
Inbound Sort
Step 2
Step 1
312B
B
304
Screening
Step 2
Step 1
312C
C
306
Outbound Sort
Step 2
Step 1
312D
D
308
Preload
Step 2
Step 1
312E
E
310
Load
Step 1
312F
F
Drive
Step 1
314
Drive
Step 1
316

FIG. 6

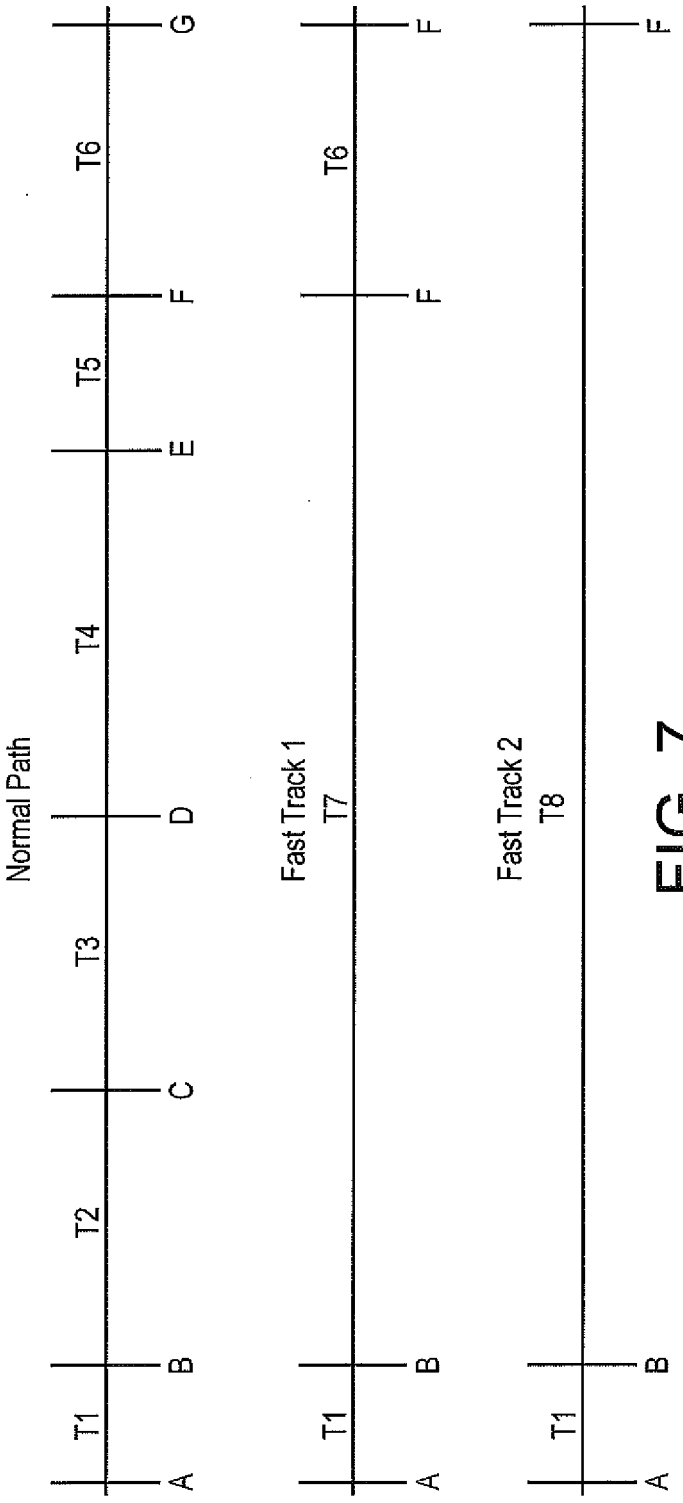
Normal Path
A
T1
B
T2
C
T3
D
T4
E
T5
F
T6
G
Fast Track 1
A
T1
B
T7
F
T6
F
Fast Track 2
A
T1
B
T8
F

FIG. 7