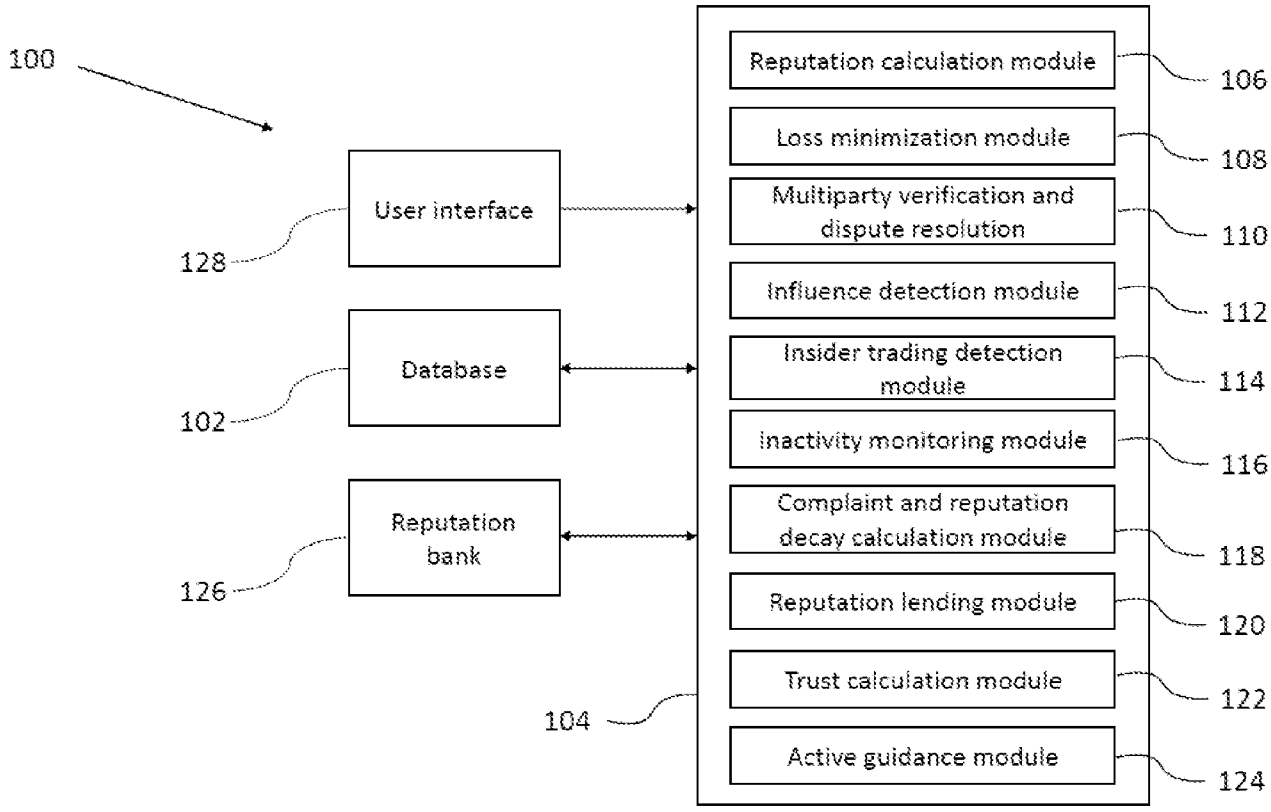

100
User interface
128
Database
102
Reputation bank
126
104
Reputation calculation module
106
Loss minimization module
108
Multiparty verification and dispute resolution
110
Influence detection module
112
Insider trading detection module
114
Inactivity monitoring module
116
Complaint and reputation decay calculation module
118
Reputation lending module
120
Trust calculation module
122
Active guidance module
124

FIG. 1

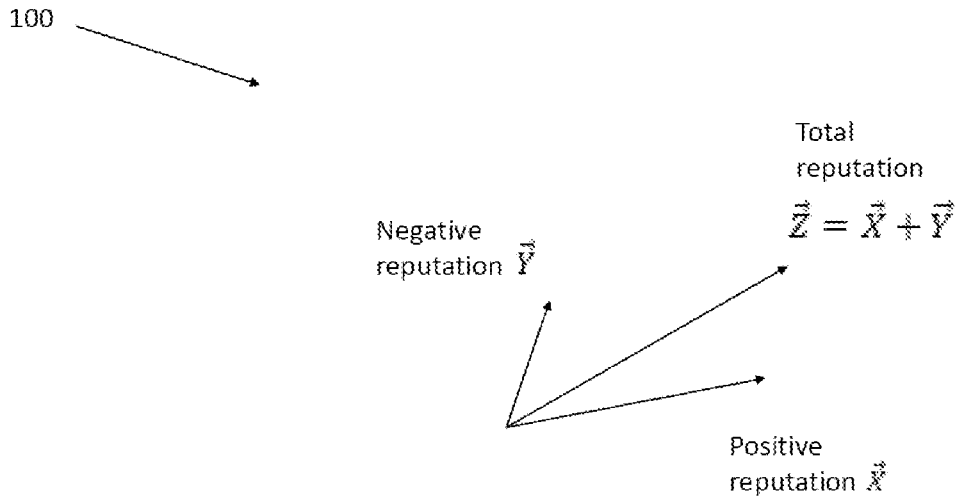

100
Total reputation
$\vec{\Sigma} = \vec{X} + \vec{Y}$
Negative reputation $\vec{Y}$
Positive reputation $\vec{X}$

FIG. 2

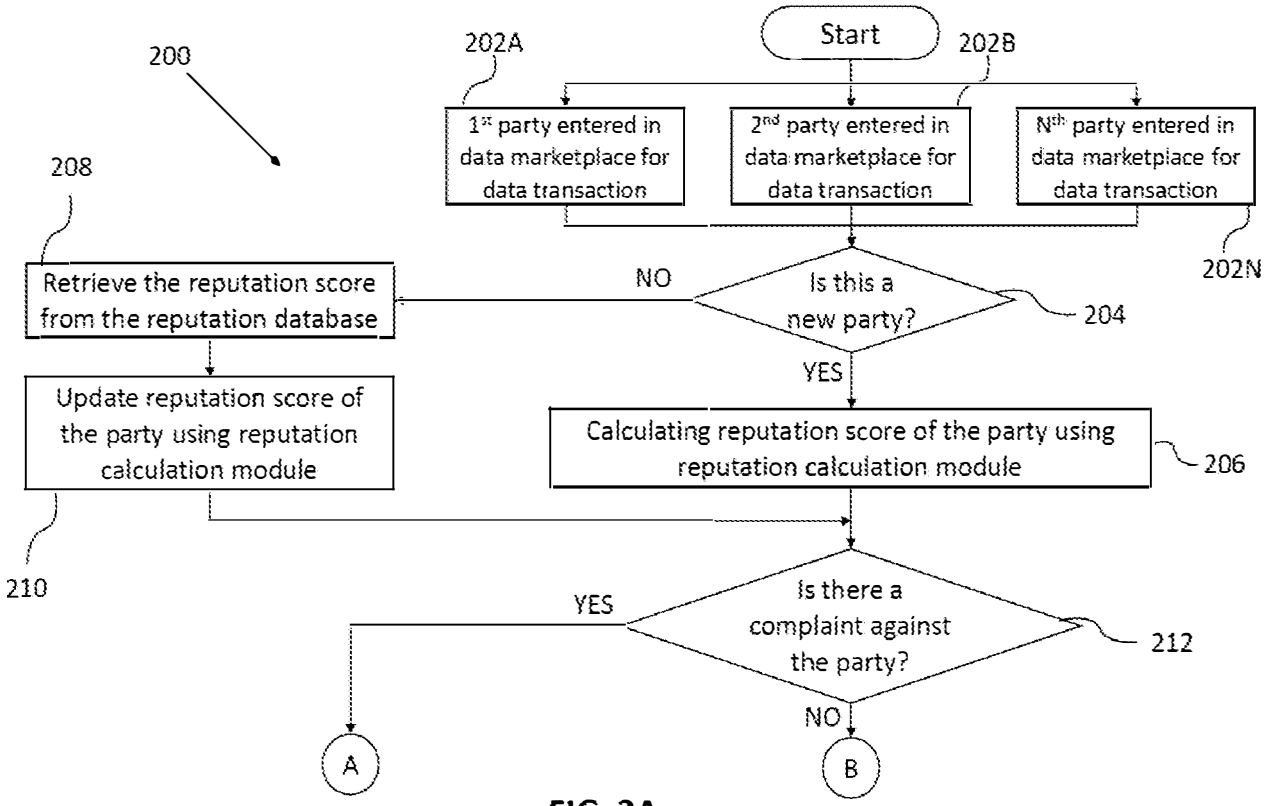

200
Start
202A
202B
1st party entered in data marketplace for data transaction
2nd party entered in data marketplace for data transaction
Nth party entered in data marketplace for data transaction
202N
208
Retrieve the reputation score from the reputation database
NO
Is this a new party?
204
YES
Update reputation score of the party using reputation calculation module
Calculating reputation score of the party using reputation calculation module
206
210
YES
Is there a complaint against the party?
212
NO
A
B

FIG. 3A

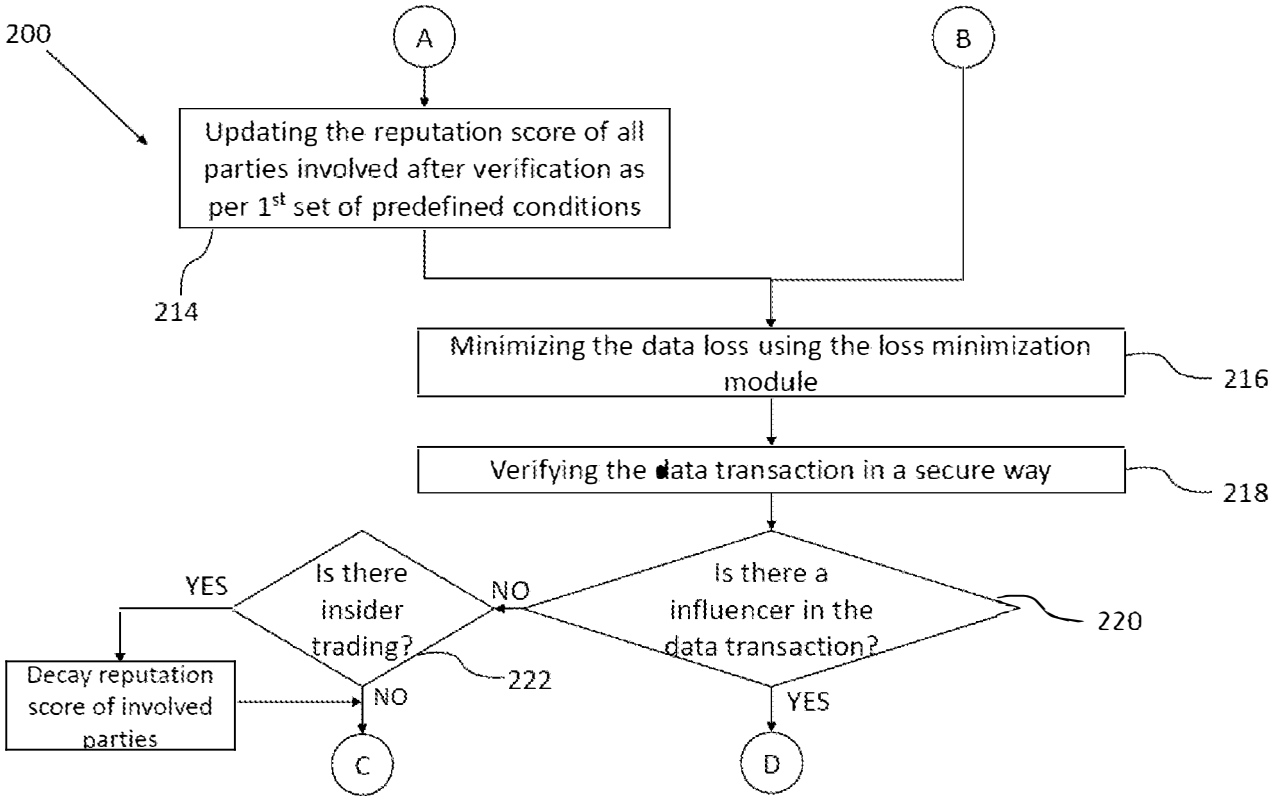

200
A
B
Updating the reputation score of all parties involved after verification as per 1st set of predefined conditions
214
Minimizing the data loss using the loss minimization module
216
Verifying the data transaction in a secure way
218
Is there a influencer in the data transaction?
220
YES
NO
Is there insider trading?
222
Decay reputation score of involved parties
NO
YES
C
D

FIG. 3B

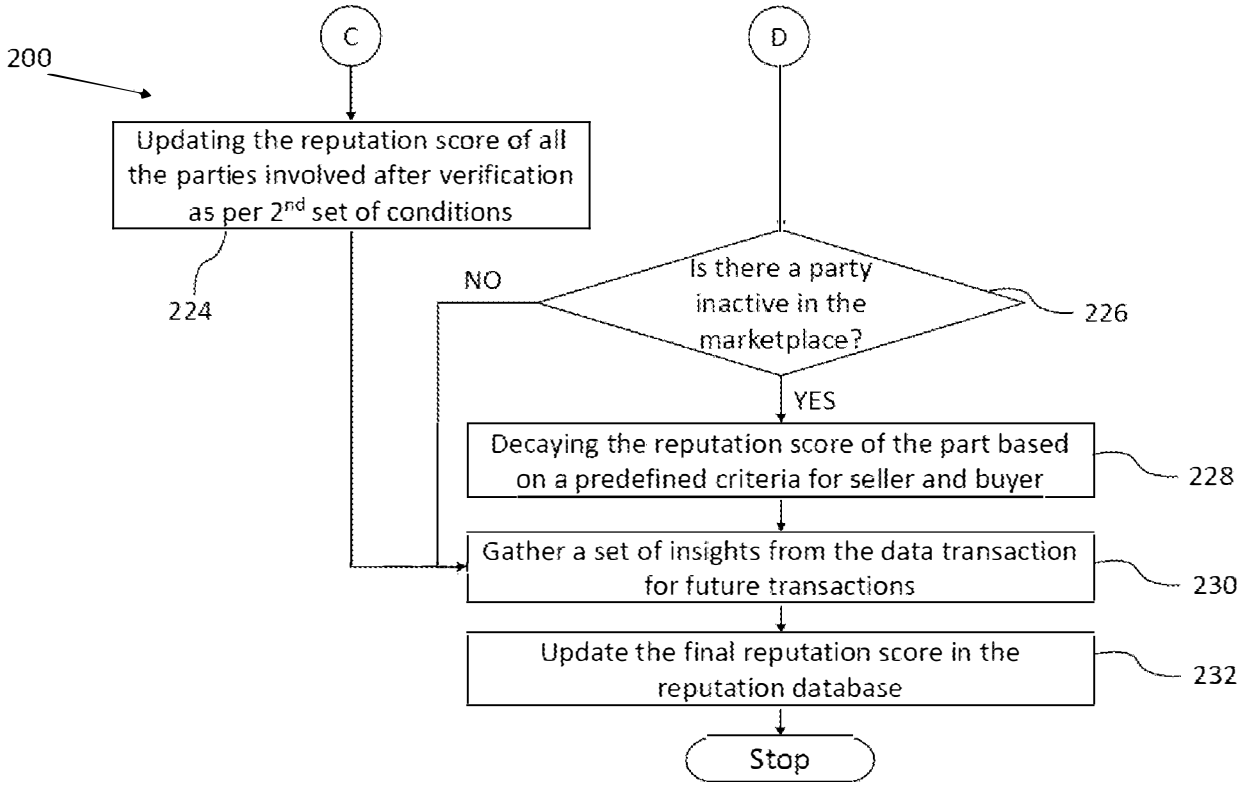

200
C
D
Updating the reputation score of all the parties involved after verification as per 2nd set of conditions
224
NO
Is there a party inactive in the marketplace?
226
YES
Decaying the reputation score of the part based on a predefined criteria for seller and buyer
228
Gather a set of insights from the data transaction for future transactions
230
Update the final reputation score in the reputation database
232
Stop

FIG. 3C

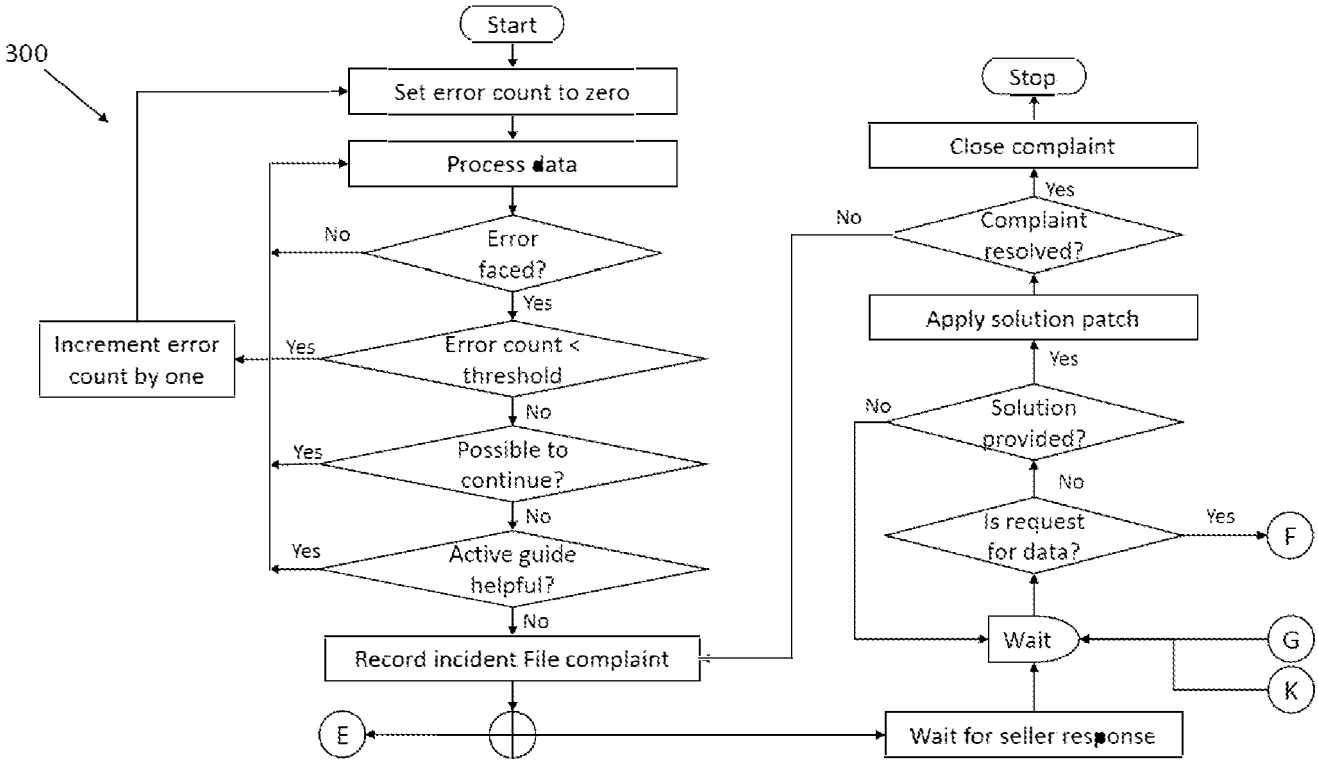

300
Start
Set error count to zero
Process data
Error faced?
No
Yes
Error count < threshold
Yes
Increment error count by one
No
Possible to continue?
Yes
No
Active guide helpful?
Yes
No
Record incident File complaint
E
Wait for seller response
Stop
Close complaint
Complaint resolved?
Yes
No
Apply solution patch
Solution provided?
Yes
No
Is request for data?
No
Yes
F
Wait
G
K

FIG. 4A

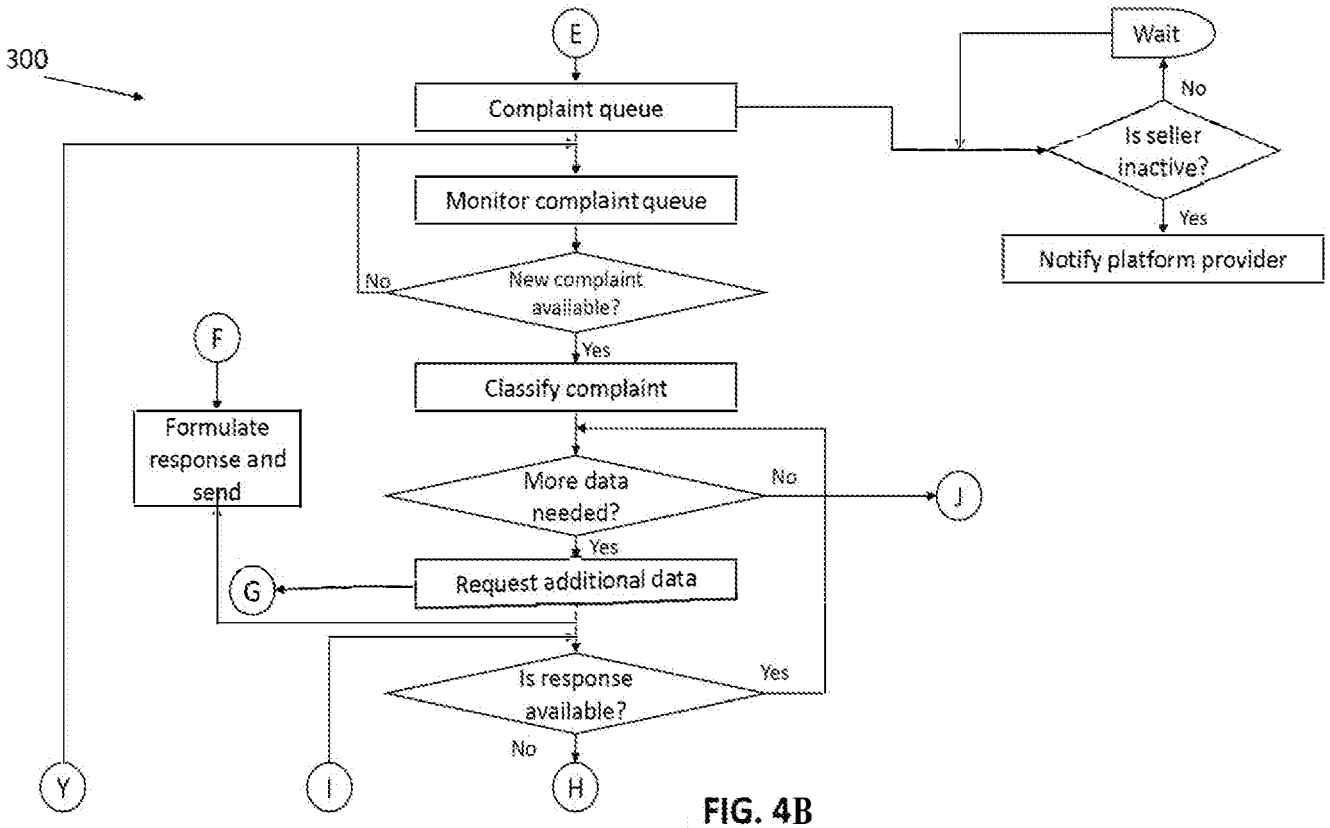

300
E
Complaint queue
Monitor complaint queue
No
New complaint available?
Yes
Classify complaint
More data needed?
No
Yes
Request additional data
Is response available?
Yes
No
F
Formulate response and send
G
H
I
J
Y
Wait
No
Is seller inactive?
Yes
Notify platform provider

FIG. 4B

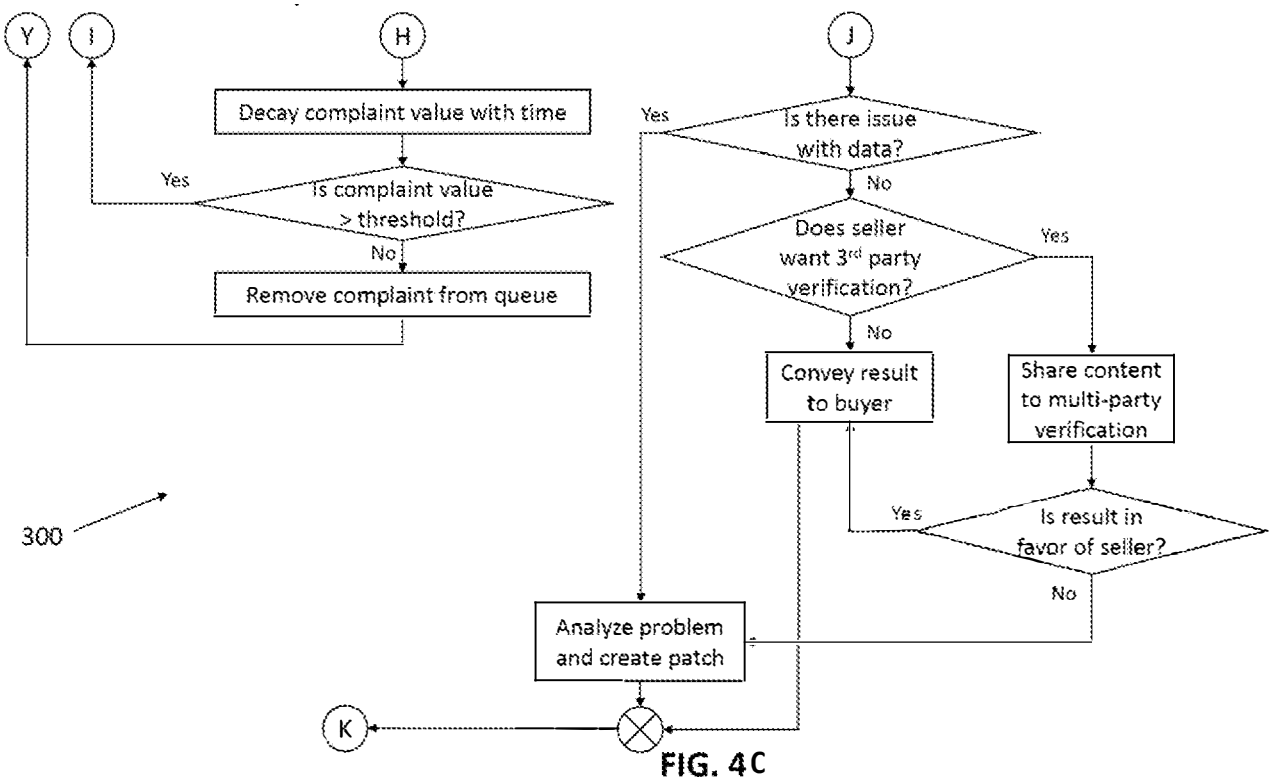

Y
I
H
J
Decay complaint value with time
Yes
Is complaint value > threshold?
No
Remove complaint from queue
Yes
Is there issue with data?
No
Does seller want 3rd party verification?
Yes
No
Convey result to buyer
Share content to multi-party verification
Yes
Is result in favor of seller?
No
Analyze problem and create patch
K
300

FIG. 4C

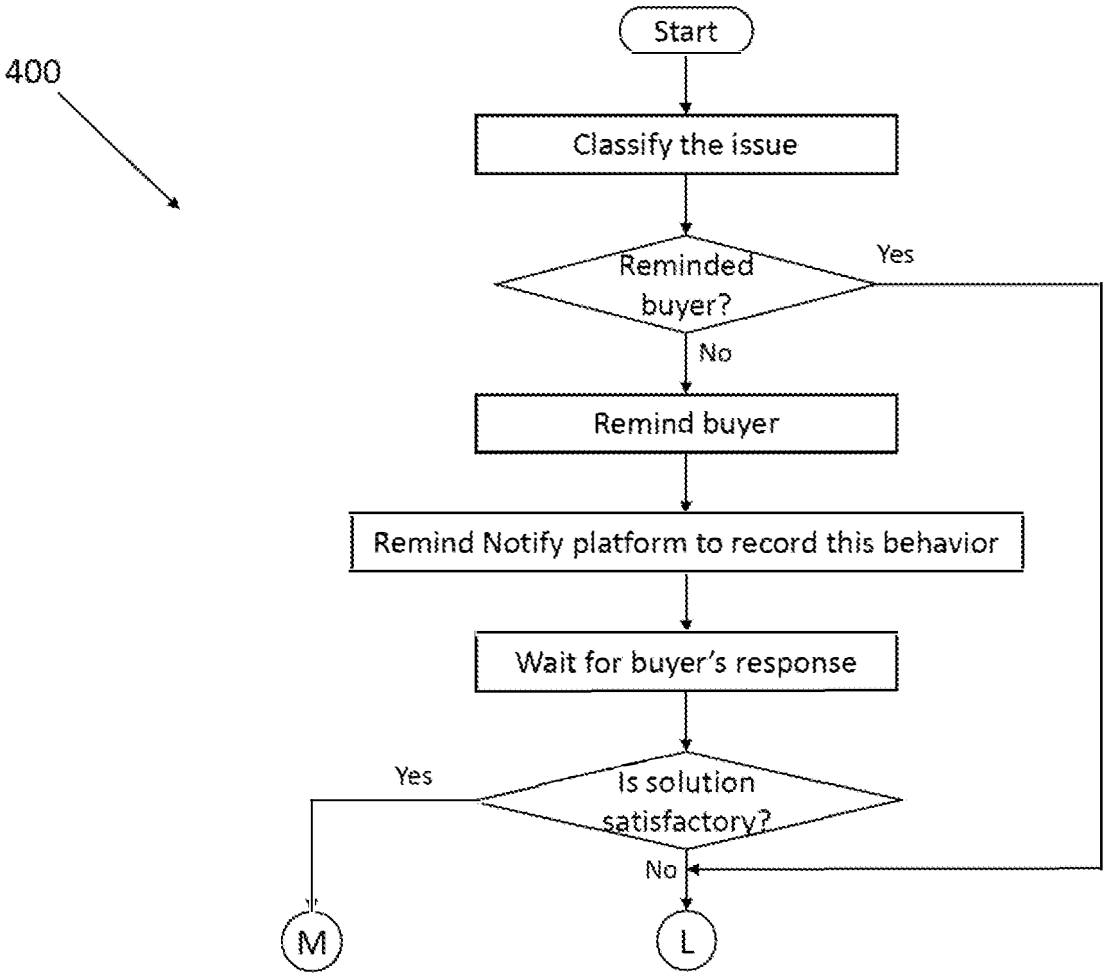

400
Start
Classify the issue
Reminded buyer?
Yes
No
Remind buyer
Remind Notify platform to record this behavior
Wait for buyer's response
Is solution satisfactory?
Yes
No
M
L

FIG. 5A

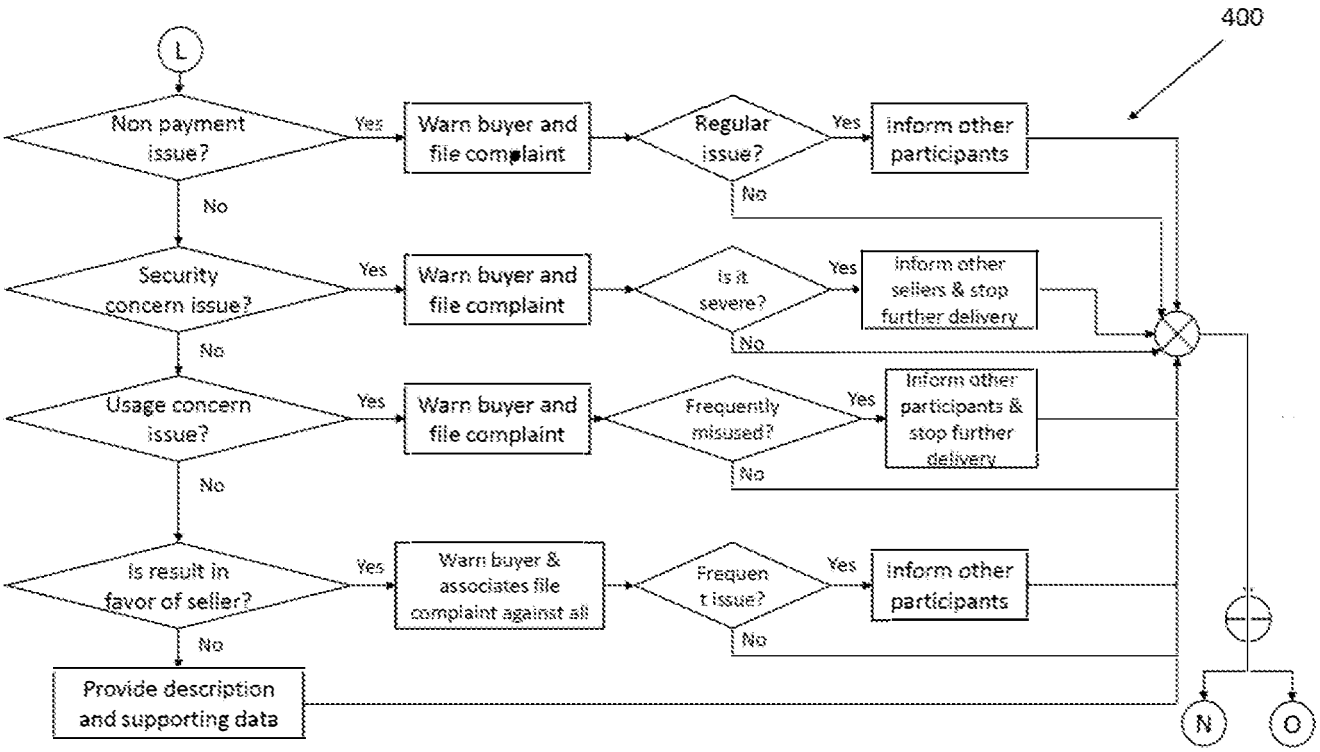

400
L
Non payment issue?
Yes
Warn buyer and file complaint
Regular issue?
Yes
inform other participants
No
No
Security concern issue?
Yes
Warn buyer and file complaint
Is it severe?
Yes
inform other sellers & stop further delivery
No
No
Usage concern issue?
Yes
Warn buyer and file complaint
Frequently misused?
Yes
Inform other participants & stop further delivery
No
No
Is result in favor of seller?
Yes
Warn buyer & associates file complaint against all
Frequen t issue?
Yes
inform other participants
No
No
Provide description and supporting data
N
O

FIG. 5B

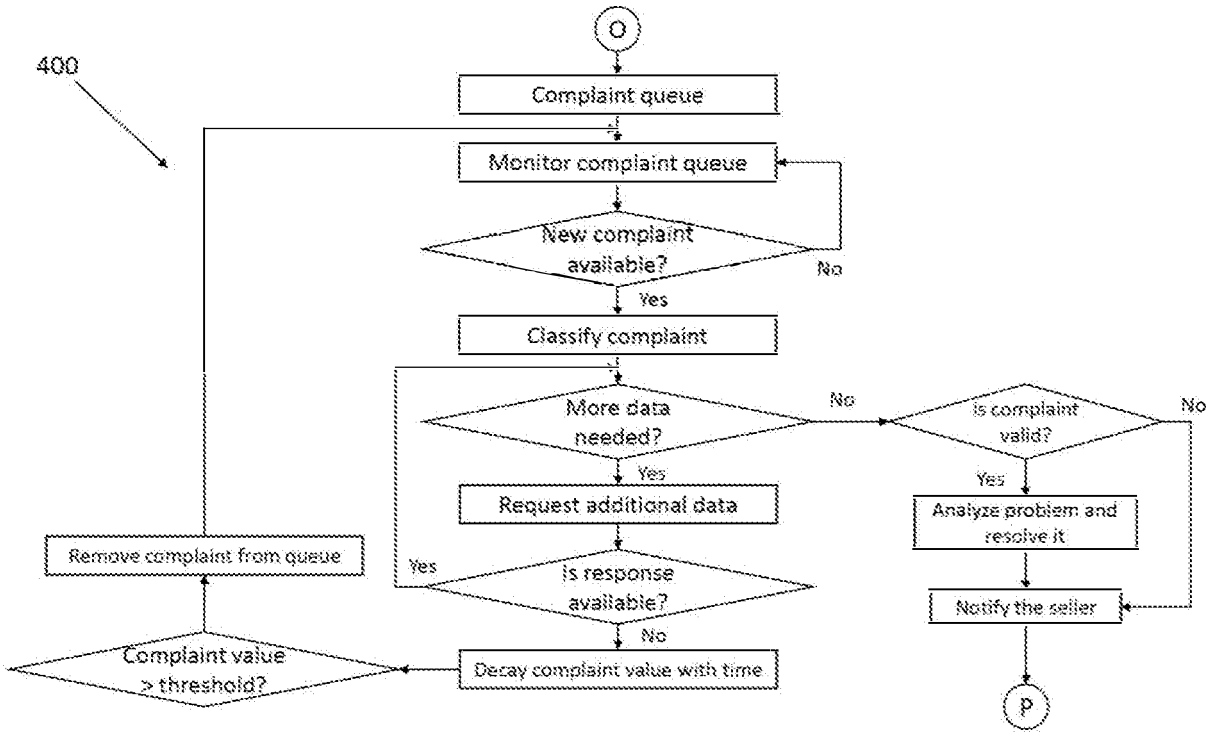

400
O
Complaint queue
Monitor complaint queue
New complaint available?
No
Yes
Classify complaint
More data needed?
No
Yes
Request additional data
Is response available?
Yes
No
Decay complaint value with time
Complaint value > threshold?
Remove complaint from queue
Is complaint valid?
No
Yes
Analyze problem and resolve it
Notify the seller
P

FIG. 5C

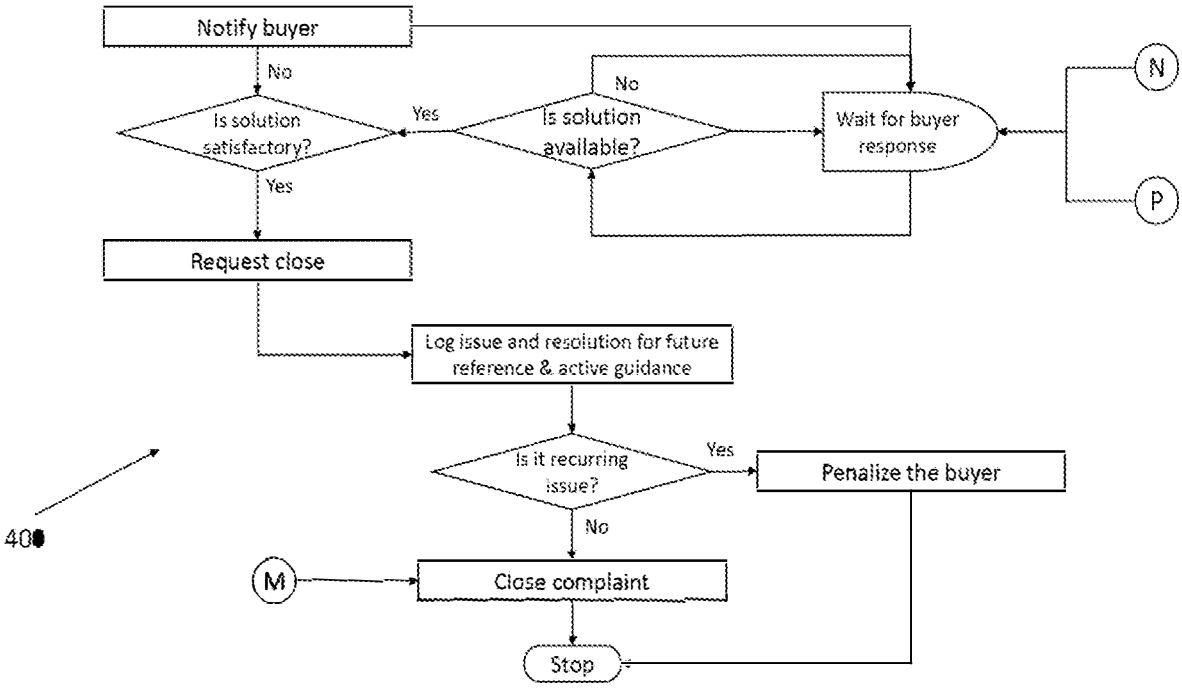

Notify buyer
No
Is solution satisfactory?
Yes
No
Is solution available?
Yes
Wait for buyer response
N
P
Request close
Log issue and resolution for future reference & active guidance
Is it recurring issue?
Yes
Penalize the buyer
No
M
Close complaint
Stop
400

FIG. 5D

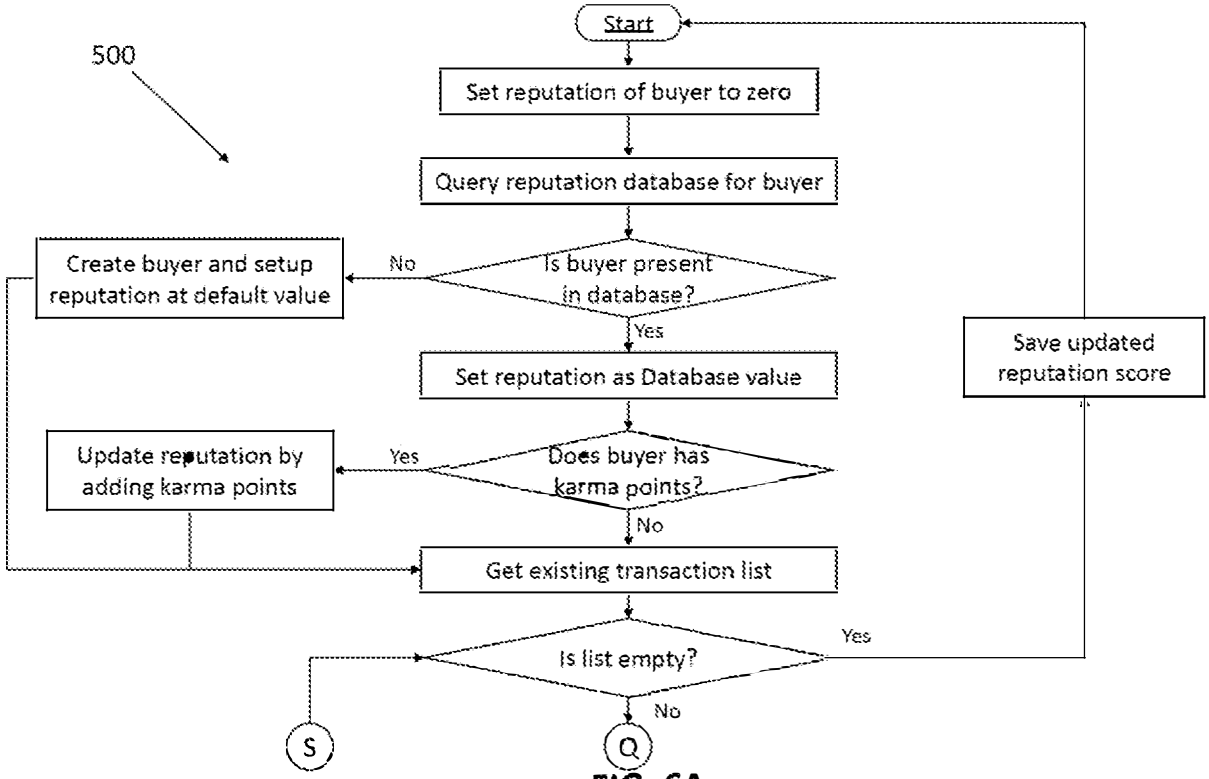

500
Start
Set reputation of buyer to zero
Query reputation database for buyer
Is buyer present in database?
No
Create buyer and setup reputation at default value
Yes
Set reputation as Database value
Does buyer has karma points?
Yes
Update reputation by adding karma points
No
Get existing transaction list
Is list empty?
Yes
No
Save updated reputation score
S
Q

FIG. 6A

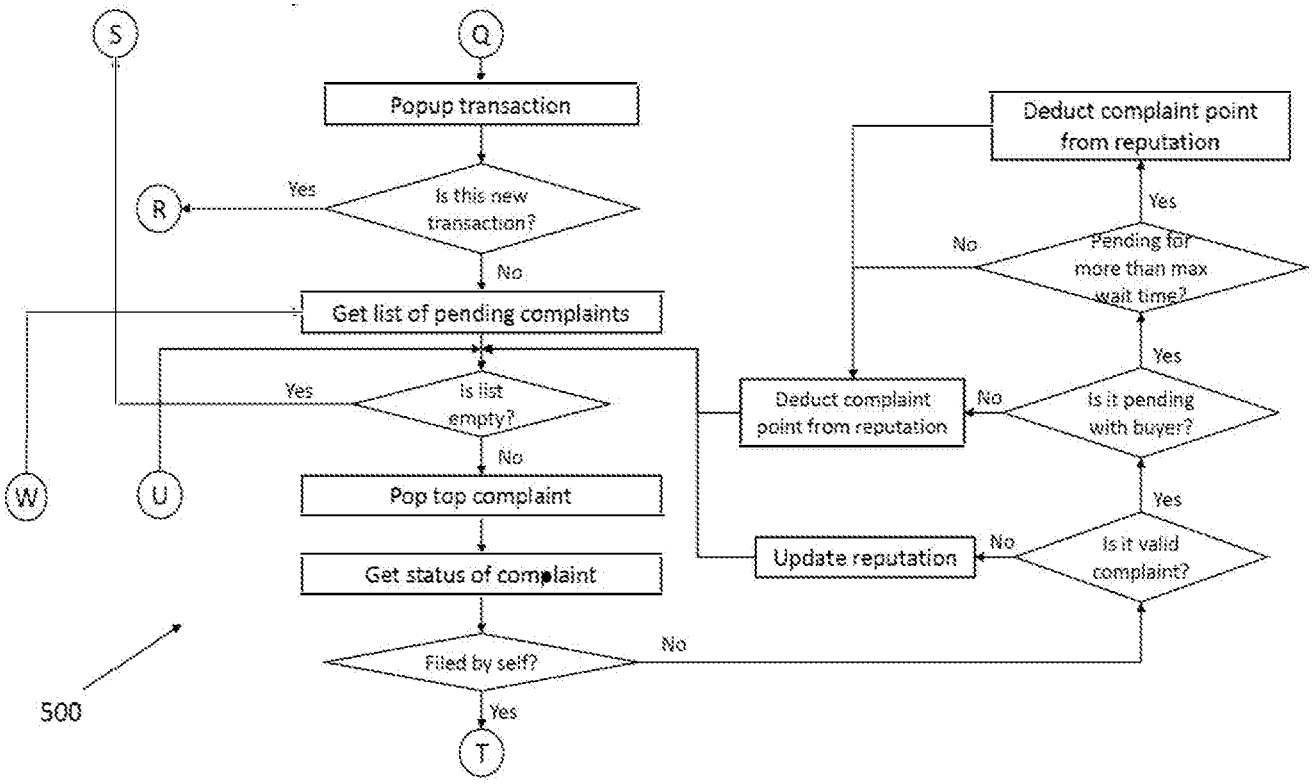

S
Q
Popup transaction
Deduct complaint point from reputation
Yes
Is this new transaction?
R
Yes
No
Pending for more than max wait time?
No
Yes
Get list of pending complaints
Yes
Is list empty?
Deduct complaint point from reputation
No
Is it pending with buyer?
Yes
W
U
No
Pop top complaint
Yes
Update reputation
No
Is it valid complaint?
Get status of complaint
No
Filed by self?
500
Yes
T

FIG. 6B

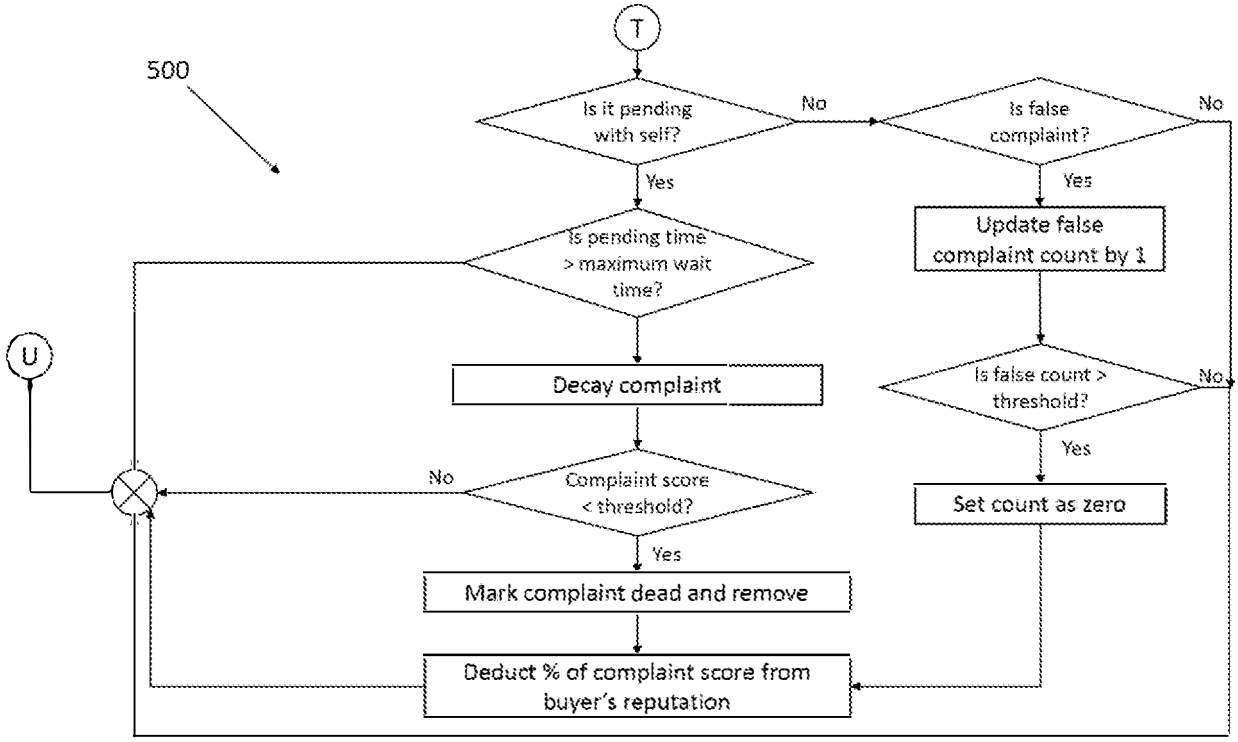

500
T
Is it pending with self?
No
Is false complaint?
No
Yes
Yes
Update false complaint count by 1
Is pending time > maximum wait time?
U
Decay complaint
Is false count > threshold?
No
Yes
Set count as zero
No
Complaint score < threshold?
Yes
Mark complaint dead and remove
Deduct % of complaint score from buyer's reputation

FIG. 6C

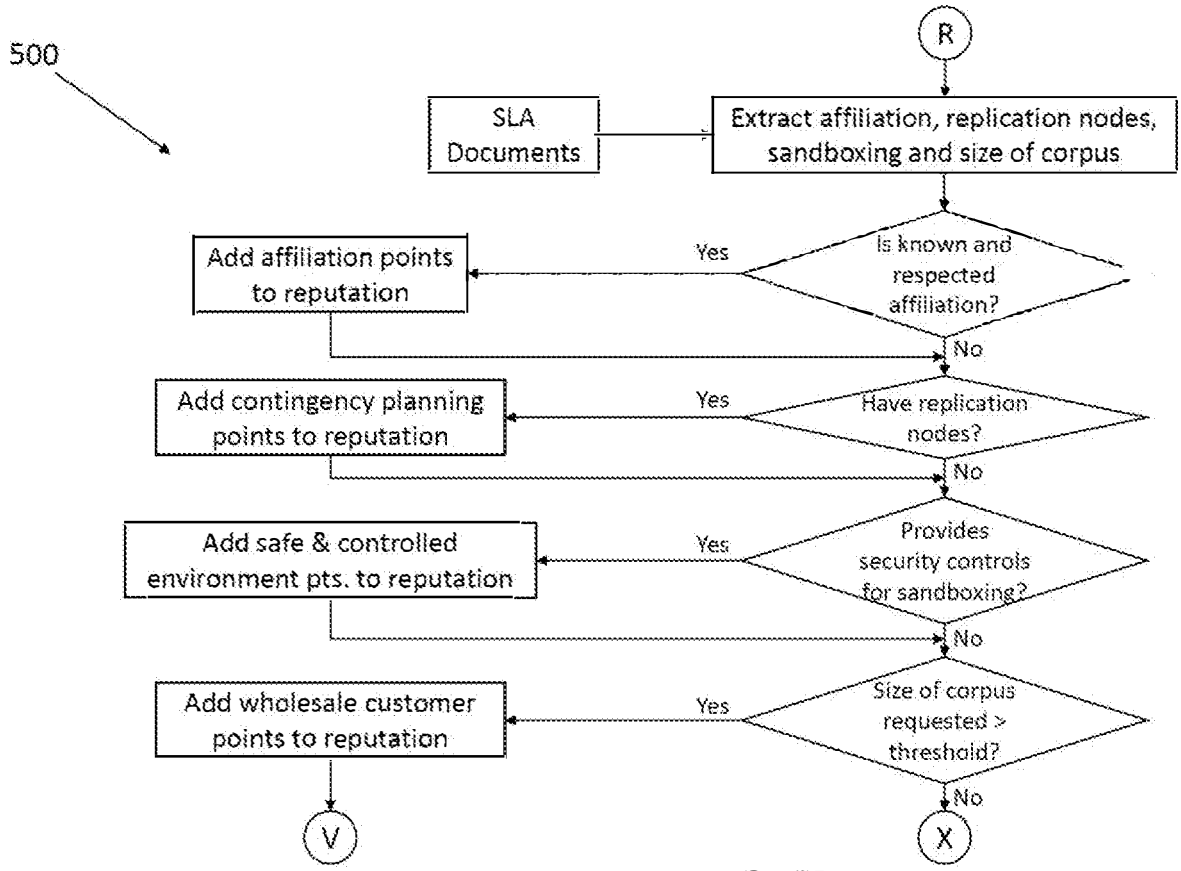

500
R
SLA Documents
Extract affiliation, replication nodes, sandboxing and size of corpus
Is known and respected affiliation?
Yes
Add affiliation points to reputation
No
Have replication nodes?
Yes
Add contingency planning points to reputation
No
Provides security controls for sandboxing?
Yes
Add safe & controlled environment pts. to reputation
No
Size of corpus requested > threshold?
Yes
Add wholesale customer points to reputation
No
V
X

FIG. 6D

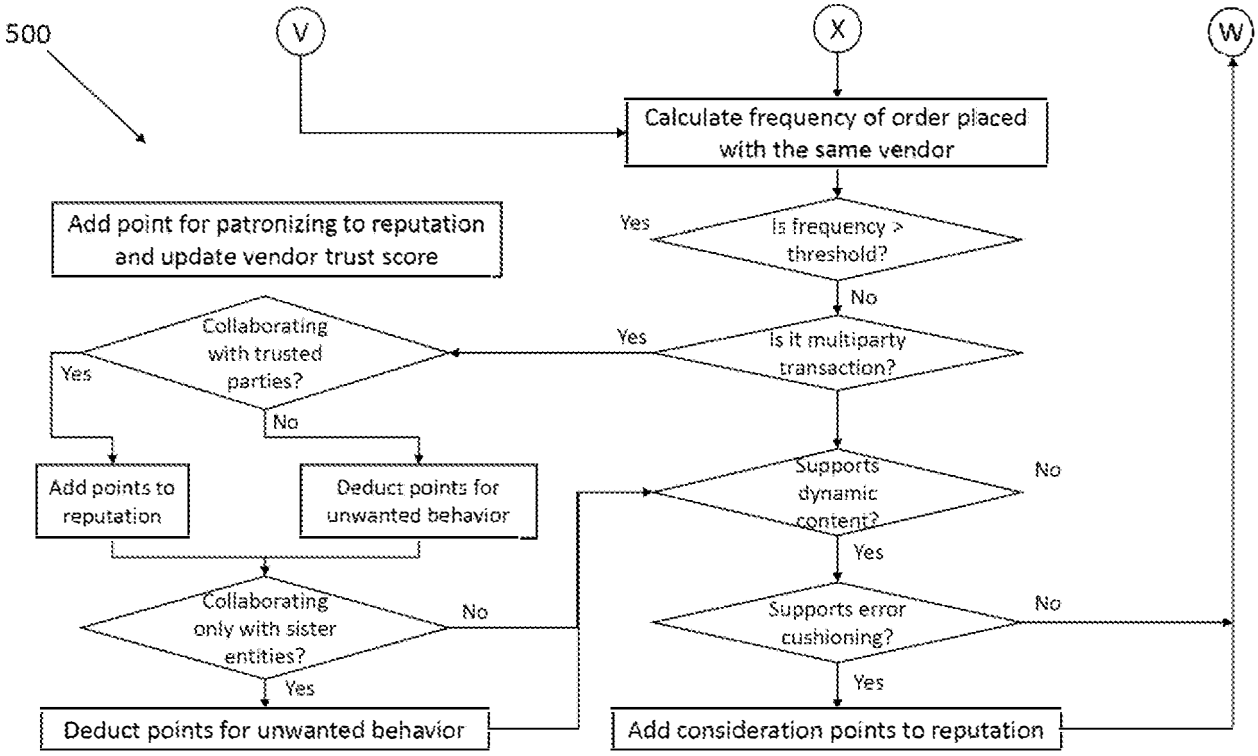

500
V
X
W
Calculate frequency of order placed with the same vendor
Is frequency > threshold?
Yes
No
Add point for patronizing to reputation and update vendor trust score
Is it multiparty transaction?
Yes
Collaborating with trusted parties?
Yes
No
Add points to reputation
Deduct points for unwanted behavior
Supports dynamic content?
No
Yes
Collaborating only with sister entities?
No
Yes
Supports error cushioning?
No
Yes
Deduct points for unwanted behavior
Add consideration points to reputation

FIG. 6E