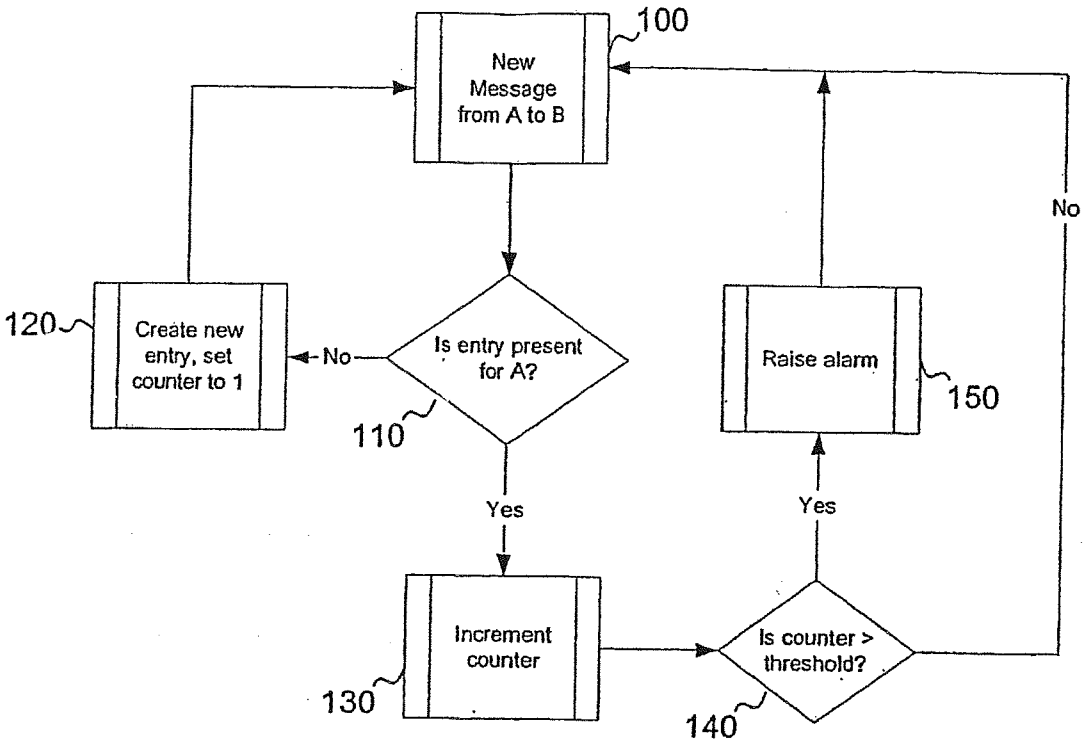

New Message from A to B
100
Is entry present for A?
110
No
Create new entry, set counter to 1
120
Yes
Increment counter
130
Is counter > threshold?
140
Yes
Raise alarm
150
No

FIGURE 1

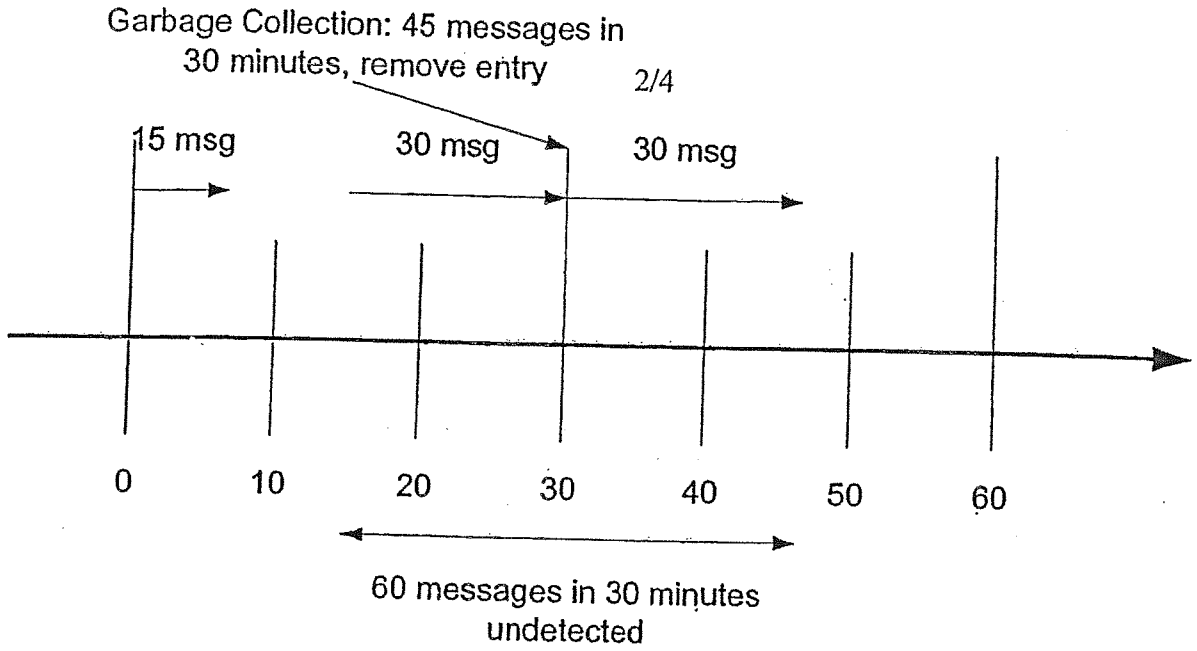

Garbage Collection: 45 messages in
30 minutes, remove entry
2/4
15 msg
30 msg
30 msg
0
10
20
30
40
50
60
60 messages in 30 minutes
undetected

FIGURE 2

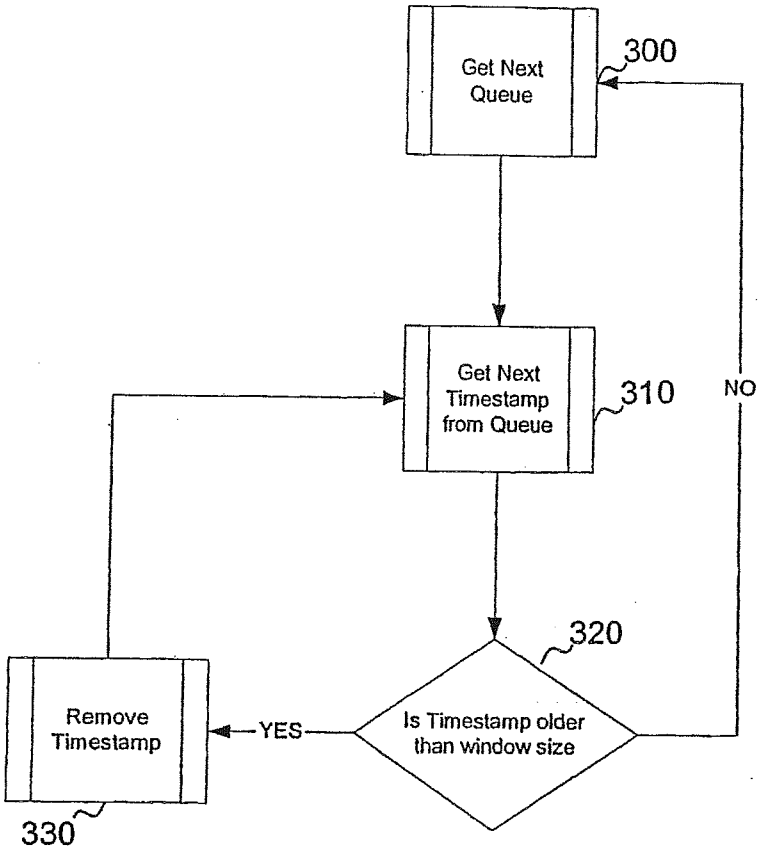

Get Next Queue
300
Get Next Timestamp from Queue
310
NO
320
Is Timestamp older than window size
YES
Remove Timestamp
330

FIGURE 3

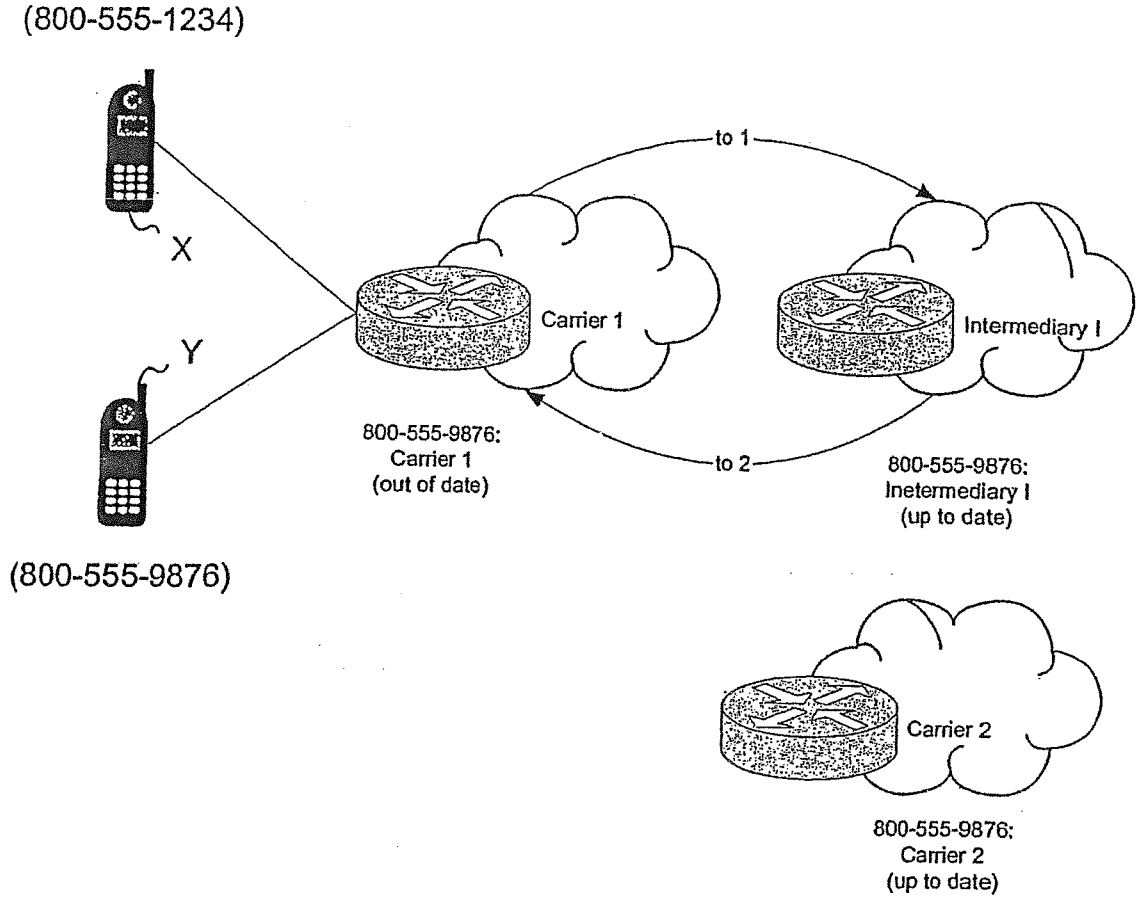

(800-555-1234)
X
Y
(800-555-9876)
to 1
Carrier 1
Intermediary I
800-555-9876:
Carrier 1
(out of date)
to 2
800-555-9876:
Inetermediary I
(up to date)
Carrier 2
800-555-9876:
Carrier 2
(up to date)

FIGURE 4

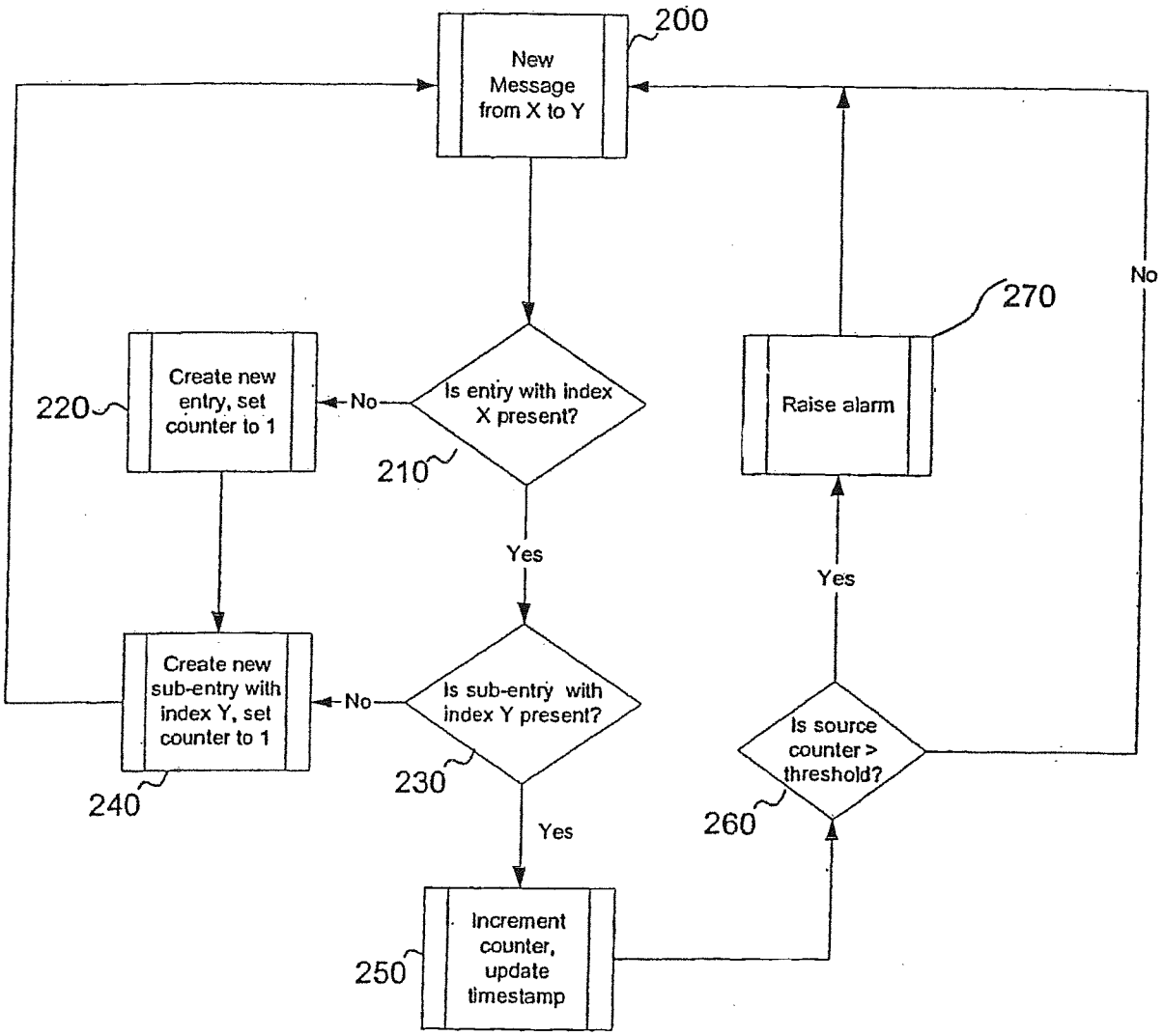

New Message from X to Y
200
Is entry with index X present?
210
No
Create new entry, set counter to 1
220
Yes
Is sub-entry with index Y present?
230
No
Create new sub-entry with index Y, set counter to 1
240
Yes
Increment counter, update timestamp
250
Is source counter > threshold?
260
Yes
Raise alarm
270
No

FIGURE 5