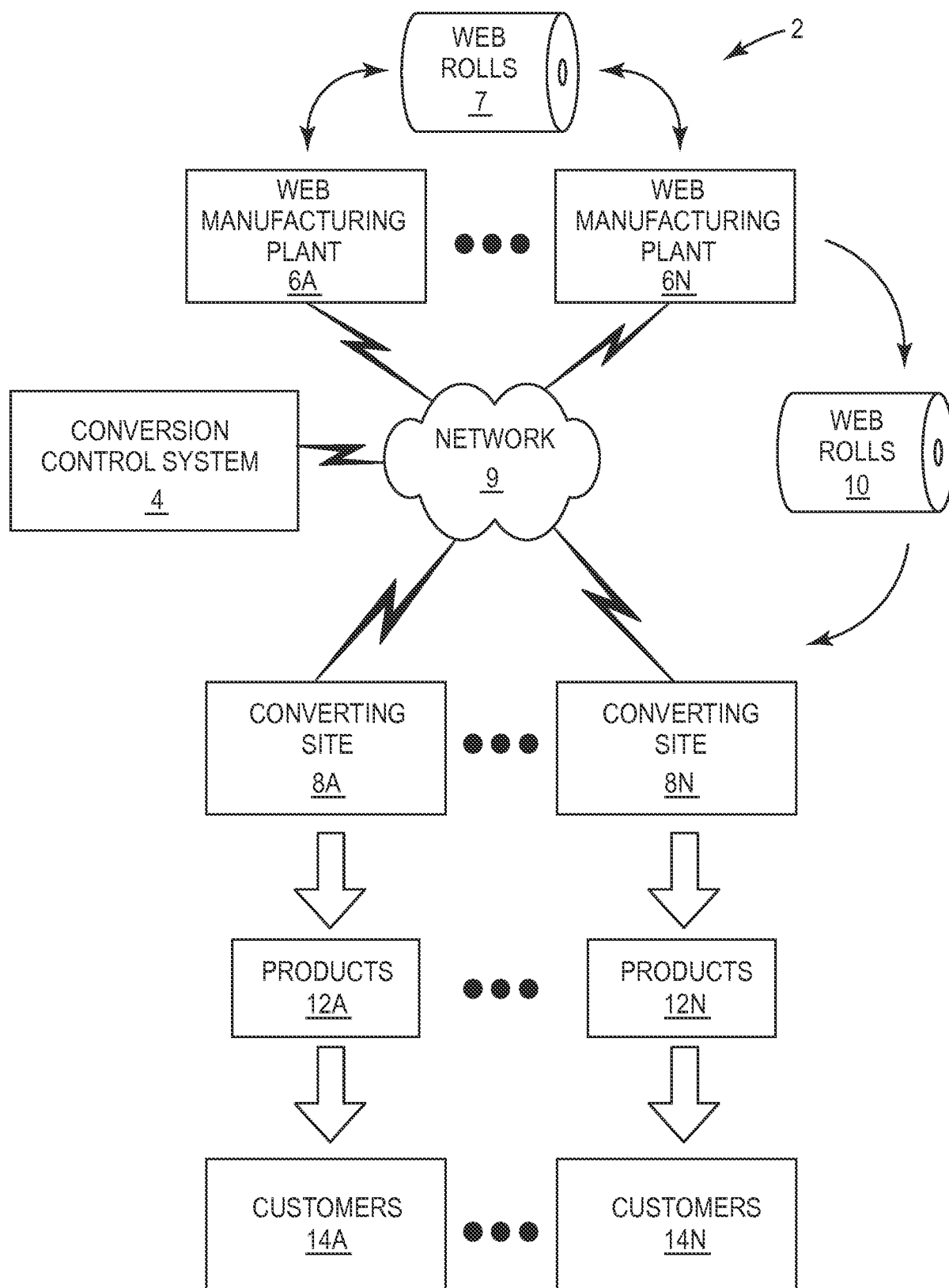


1/19

*FIG. 1*

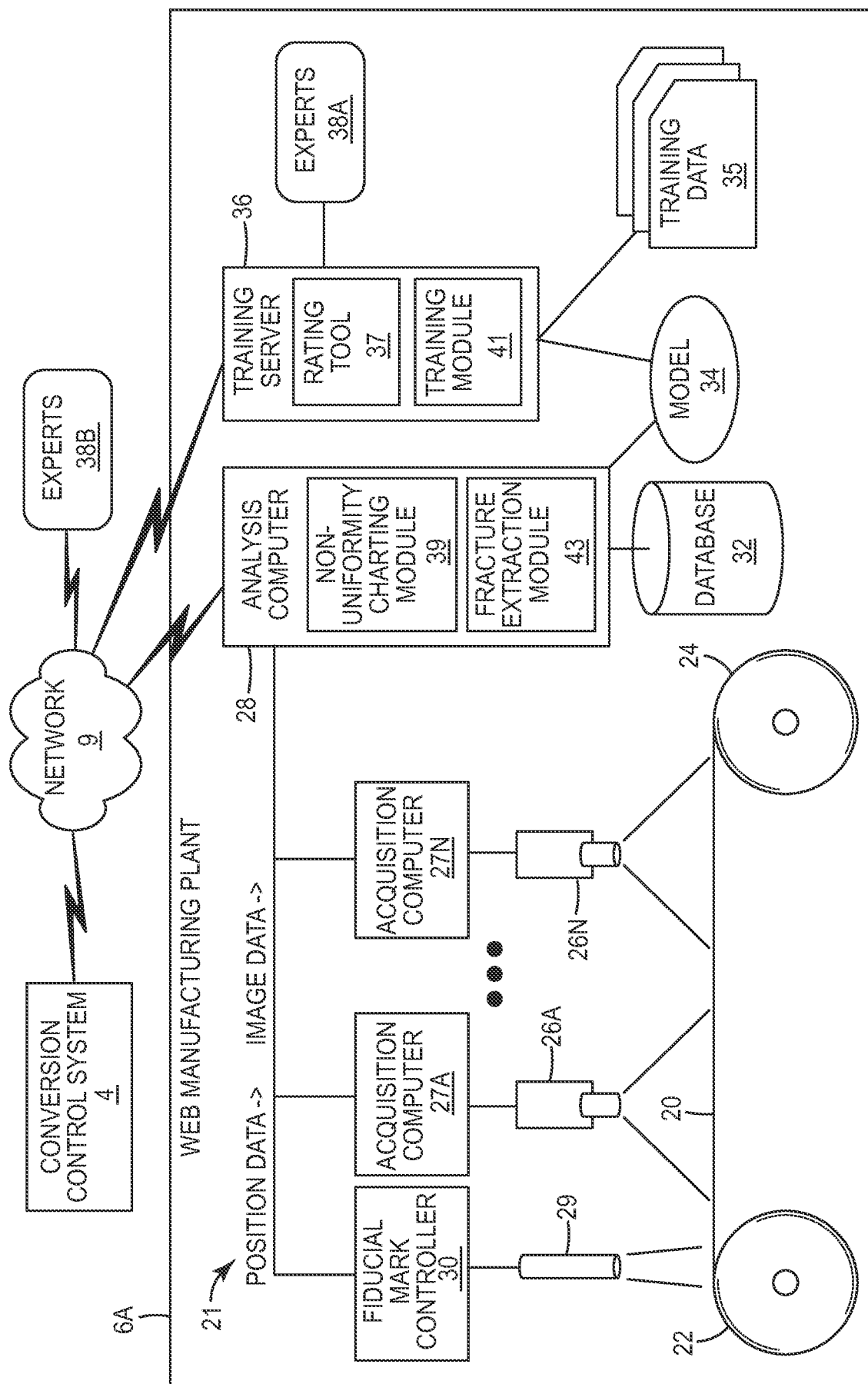


FIG. 2

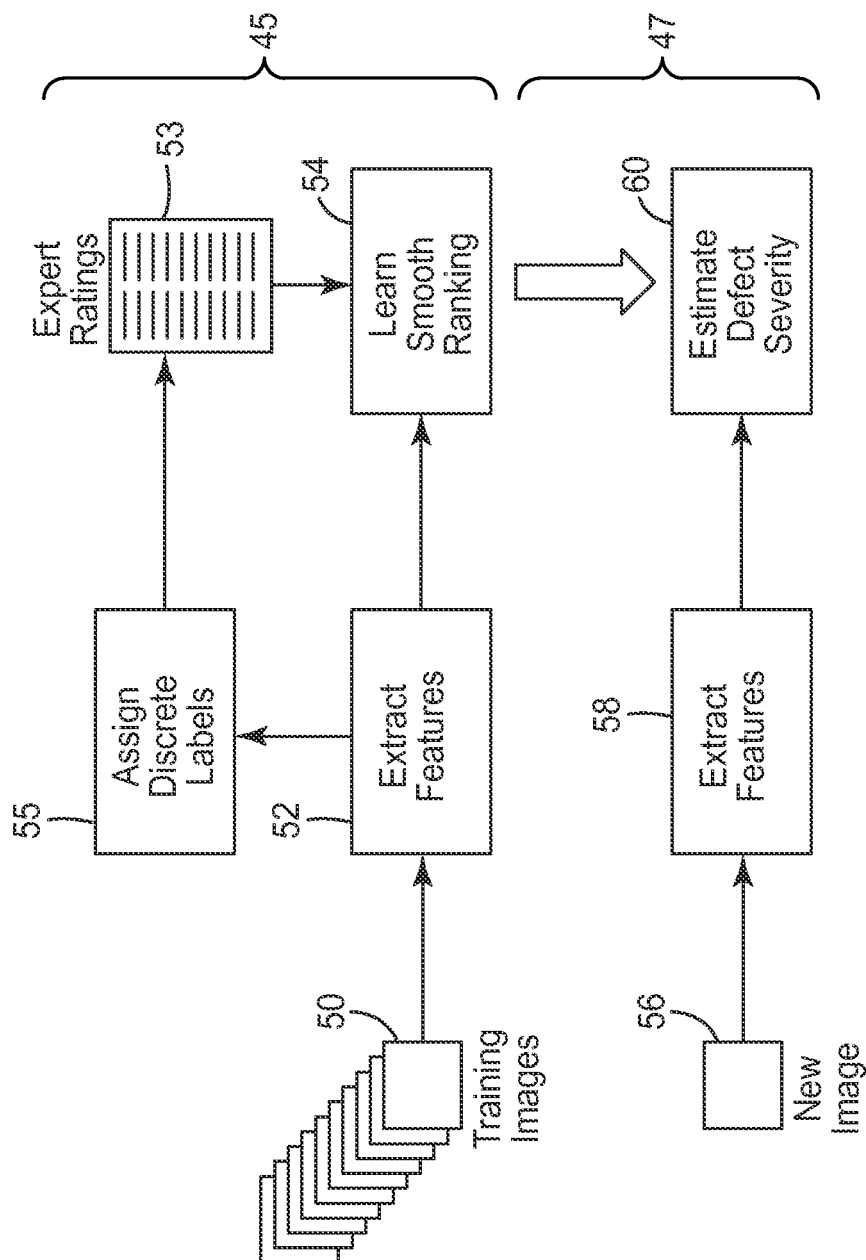


FIG. 3

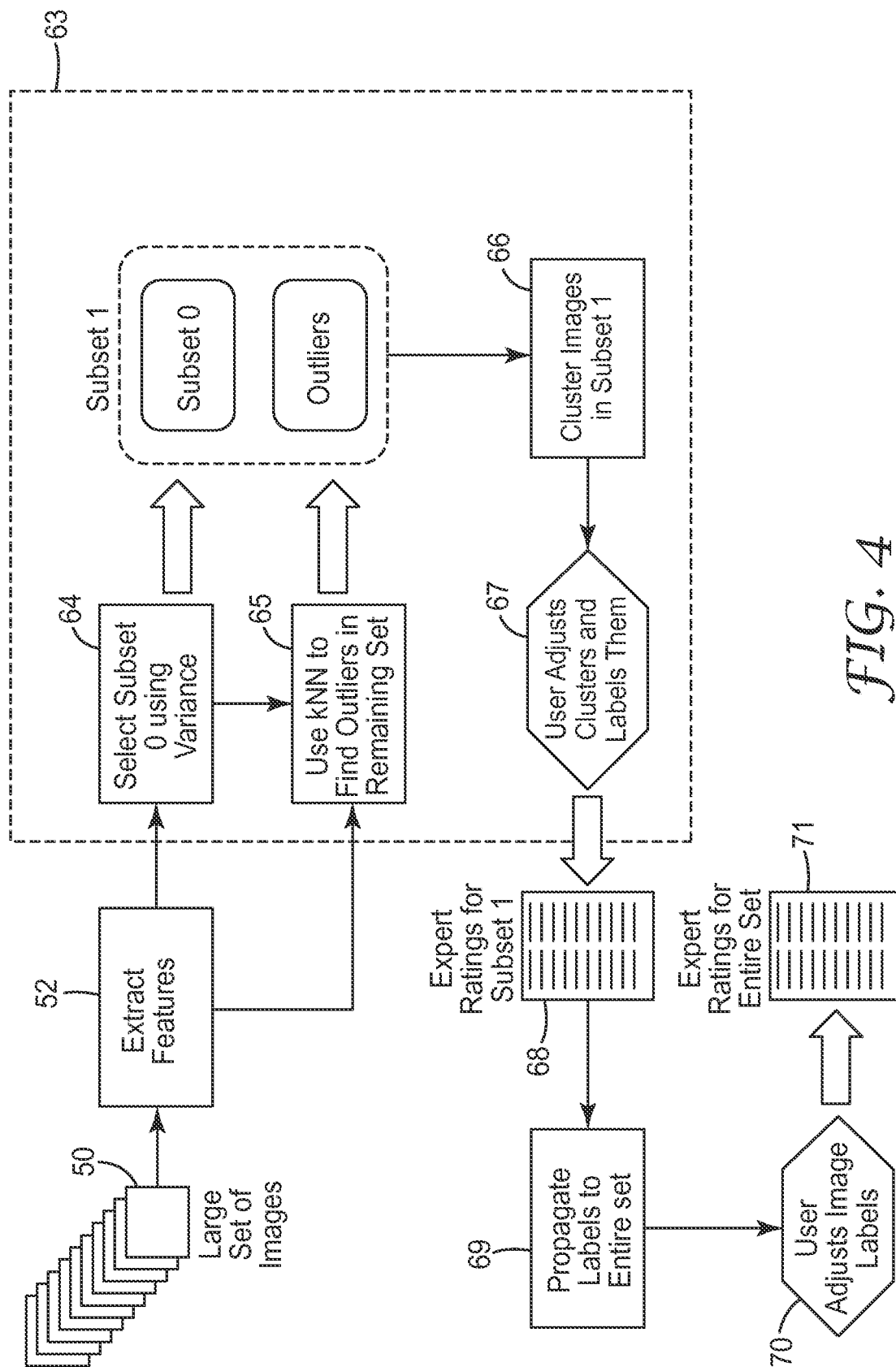


FIG. 4

5/19

80

ExpertRatingTool v2.0

Data Input/Output Settings

Image Directory: C:\evan\UniformityProject\data\optimizer\data

Image filetype: bmp

Result Directory: Results_ExpertRating_Optimizer6bit

Cluster Assignments

☒ Perform New Clustering

☐ Read in Clustering from Existing Result File

Algorithm Parameters

Number of Clusters: 50

Settings for Large Datasets

☒ Dataset is large -- use only a subset

Number of High STD Images: 150

Number of Other Images: 50

☒ Also include outliers

Number of Nearest-Neighbors: 5

Distance Threshold: 1.0

Cluster Images

FIG. 5

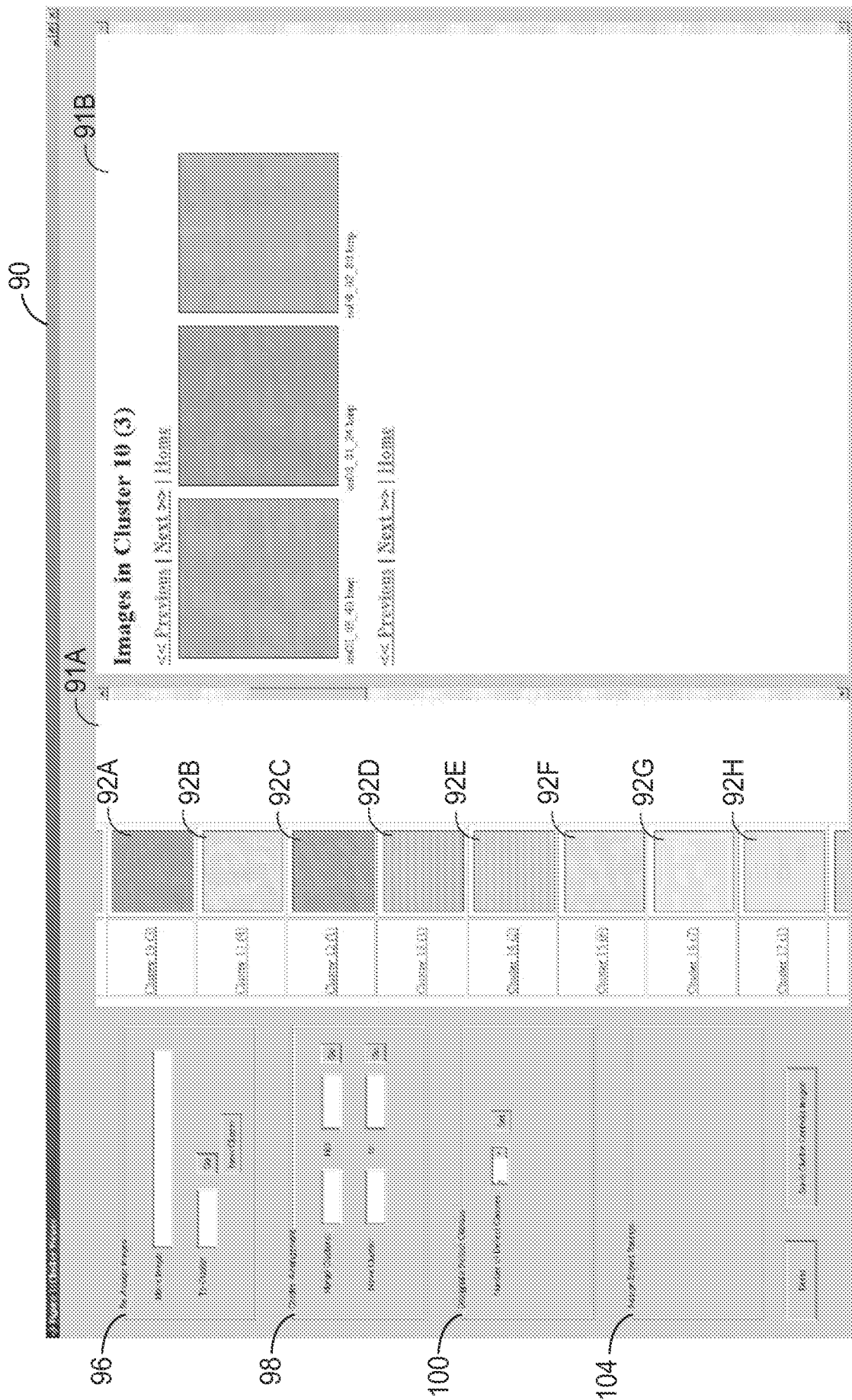


FIG. 6

Designate Defect Classes

DC1
Name:

Chatter

DC2
Name:

Whistle

DC3
Name:

Streaks

Set

Assign Expert Ratings

Done

Save Cluster Centroid Images

FIG. 8

Designate Defect Classes

Number of Defect Classes:

1

2

3

4

5

6

Set

Assign Expert Ratings

Done

Save Cluster Centroid Images

FIG. 7

8/19

The screenshot shows a software interface with two main sections. The top section, labeled 100, is titled "Designate Defect Classes" and contains three entries: "DC1: chatter", "DC2: mottle", and "DC3: streaks". The bottom section, labeled 104, is titled "Assign Expert Ratings" and contains a "Label Cluster" input field with the value "13". Below this are three rows for "DC1", "DC2", and "DC3", each with a "Label" input field. The values in these fields are "5", "1", and "1" respectively. A "Set" button is located to the right of the "DC3" label field. At the bottom of the interface are two buttons: "Done" and "Save Cluster Centroid Images".

100 — Designate Defect Classes

DC1: chatter

DC2: mottle

DC3: streaks

104 — Assign Expert Ratings

Label Cluster: 13

DC1 Label: 5

DC2 Label: 1

DC3 Label: 1

Set

Done

Save Cluster Centroid Images

FIG. 9

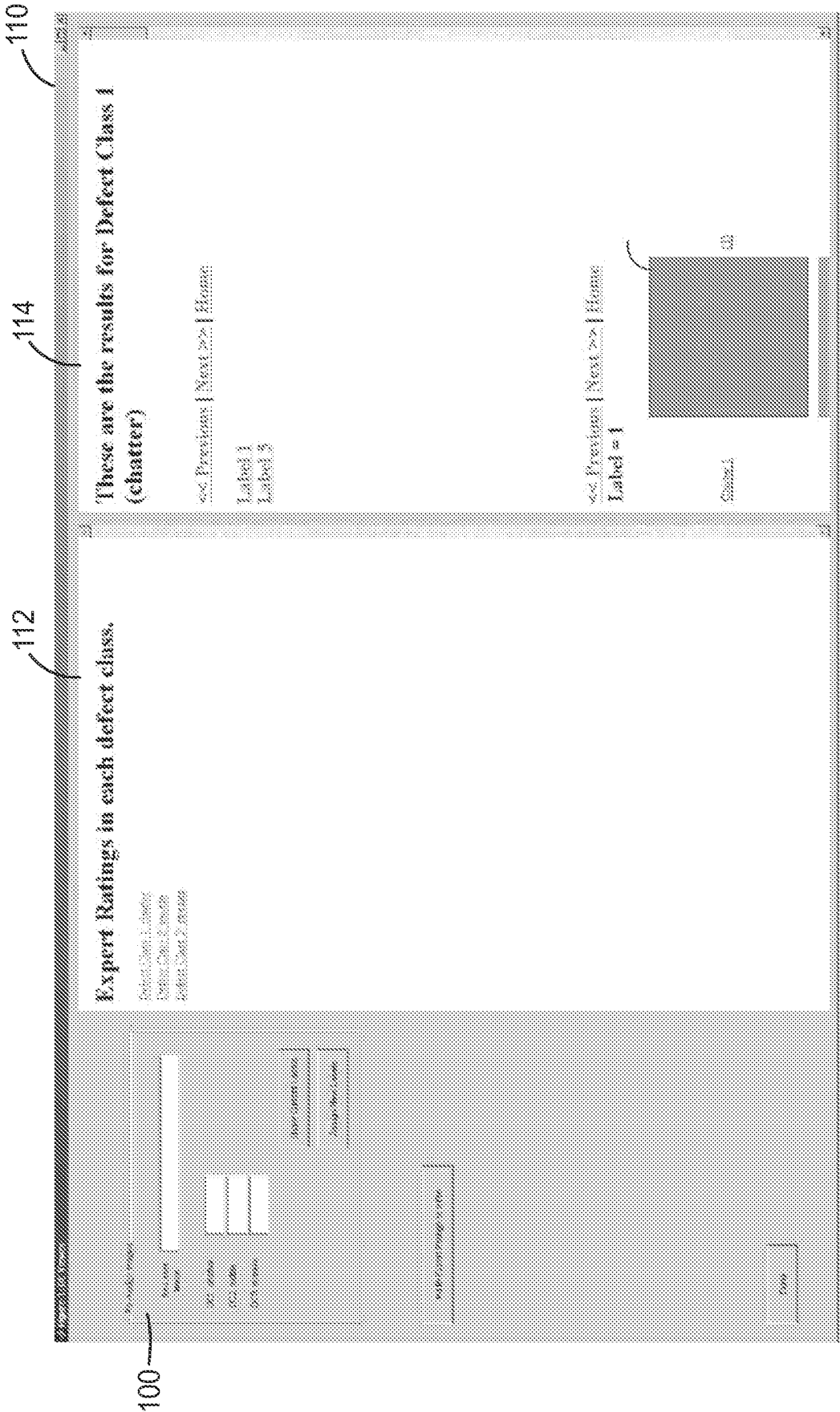


FIG. 10

10/19

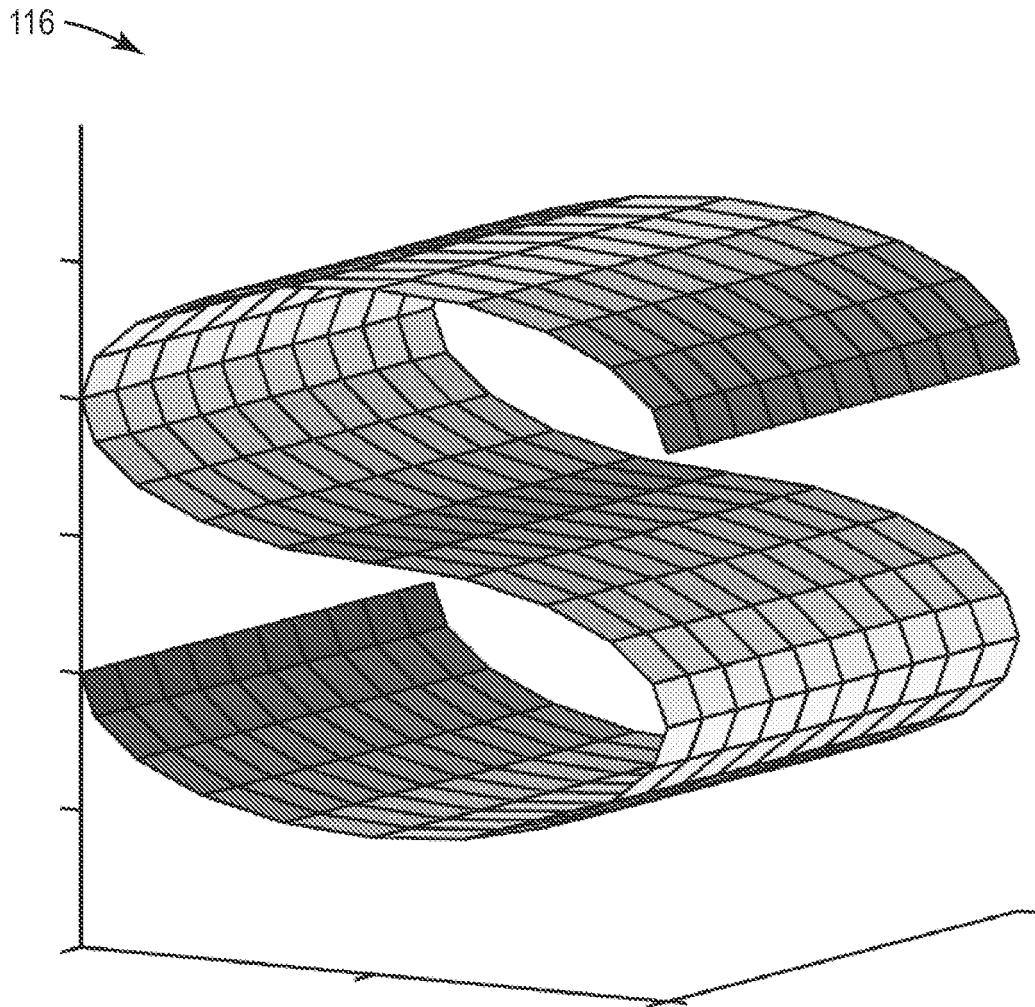
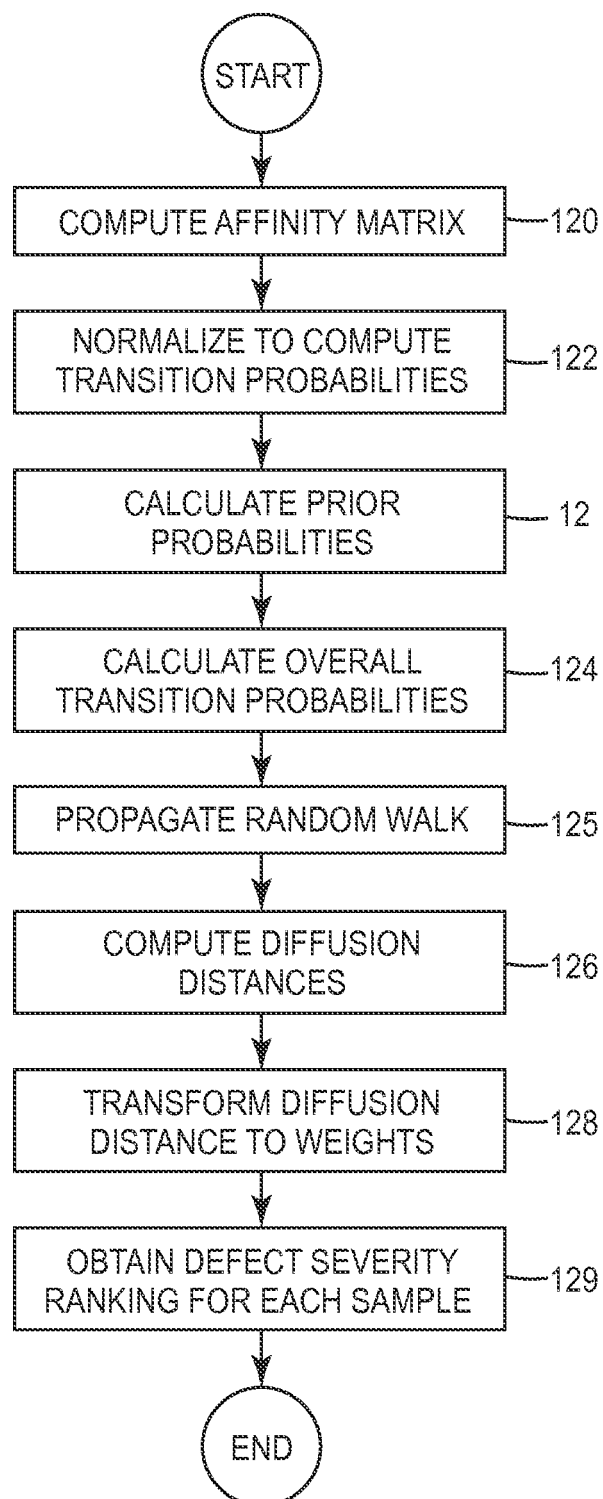
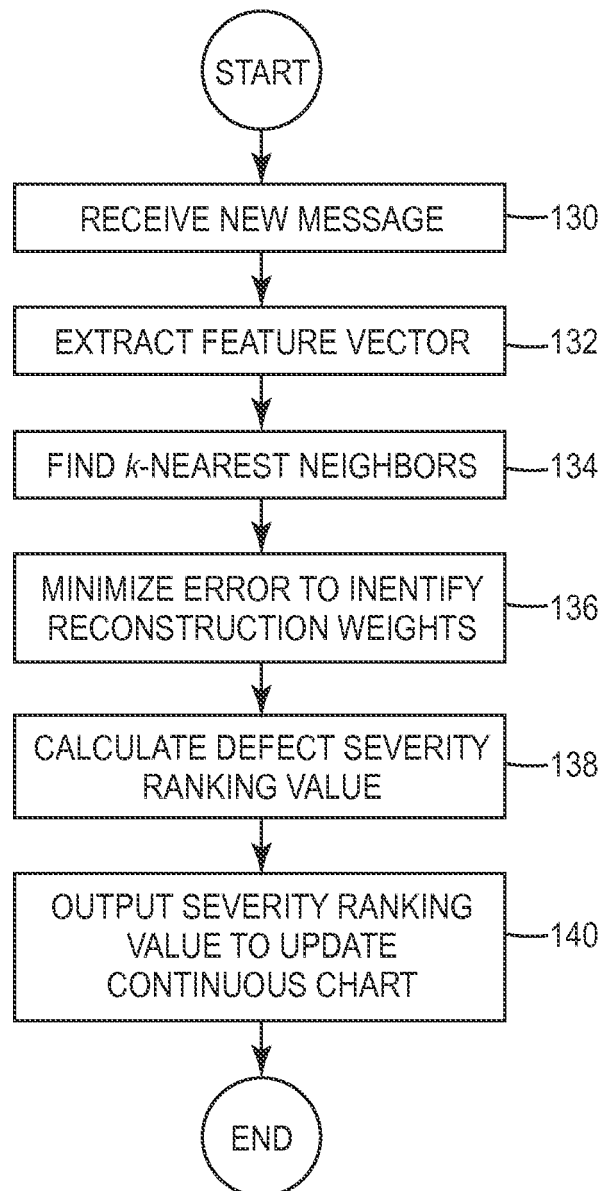


FIG. 11

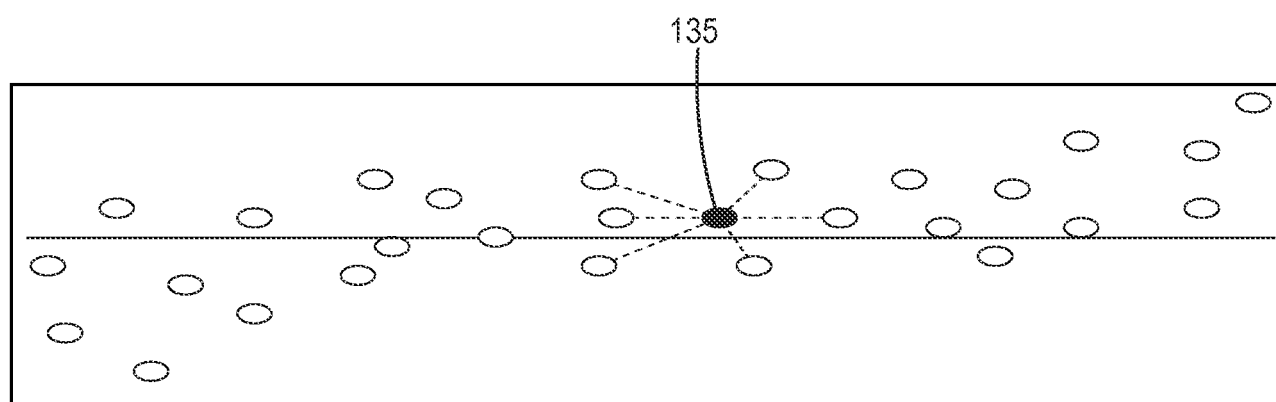
11/19

*FIG. 12*

12/19

*FIG. 13*

13/19

*FIG. 14*

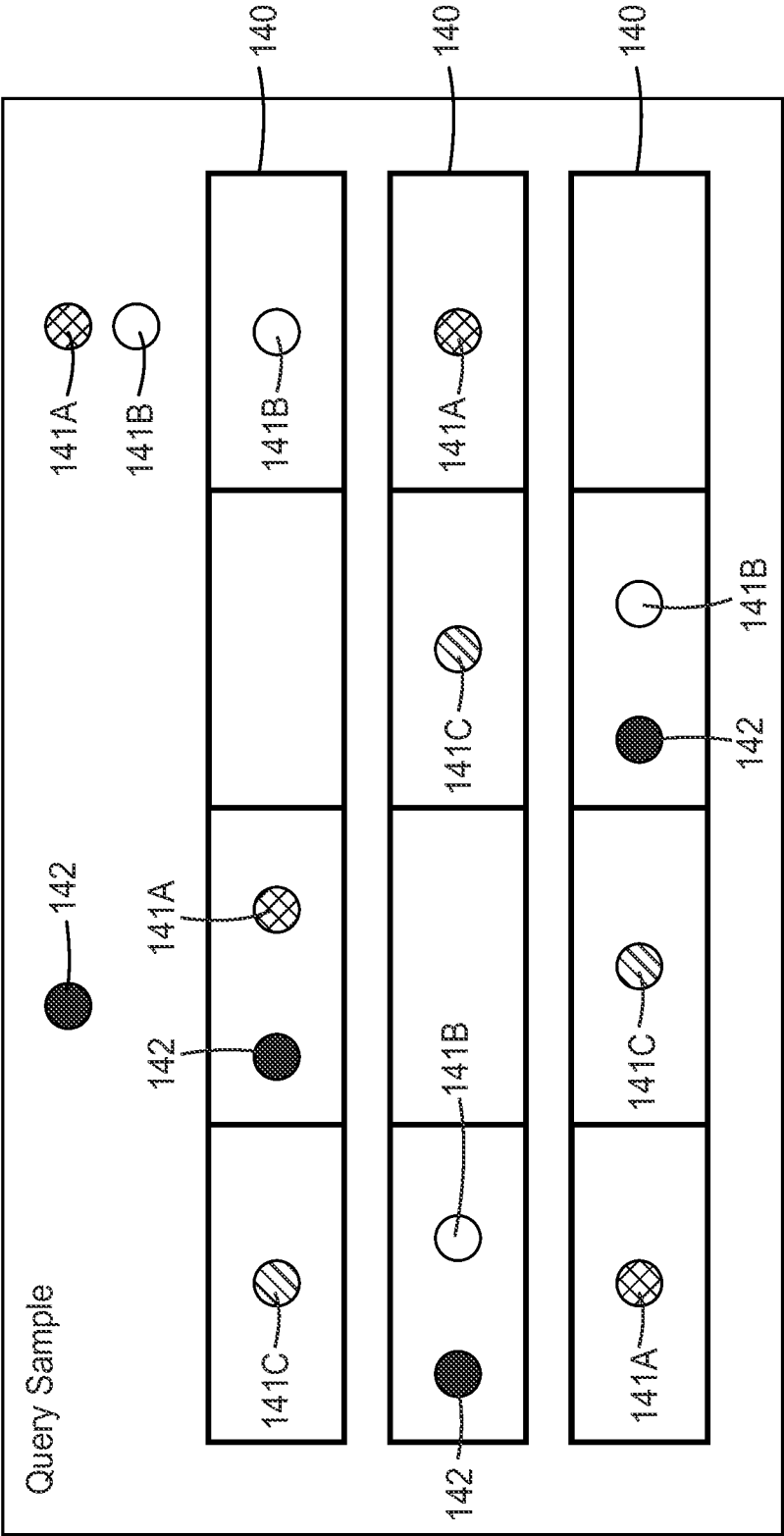


FIG. 15

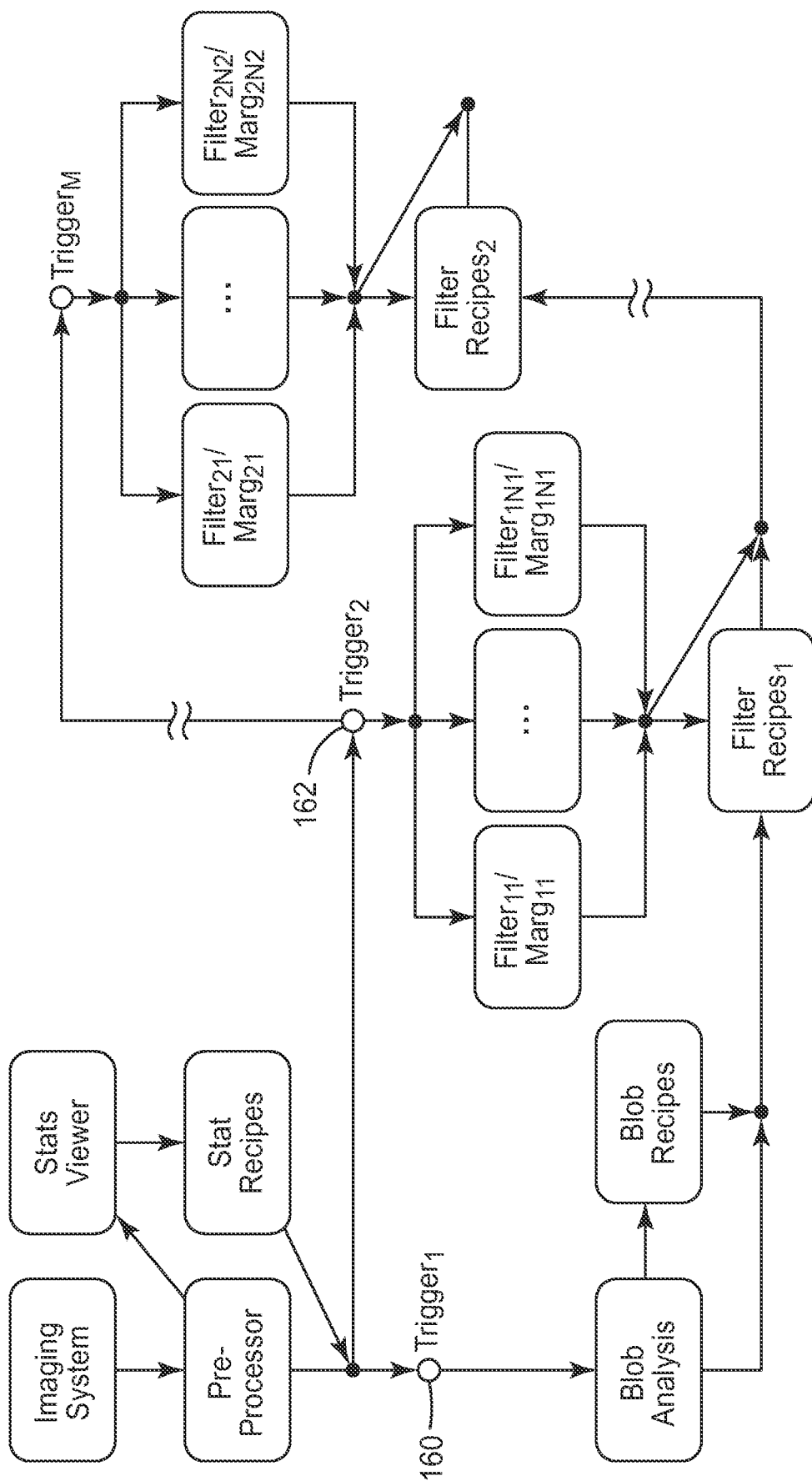
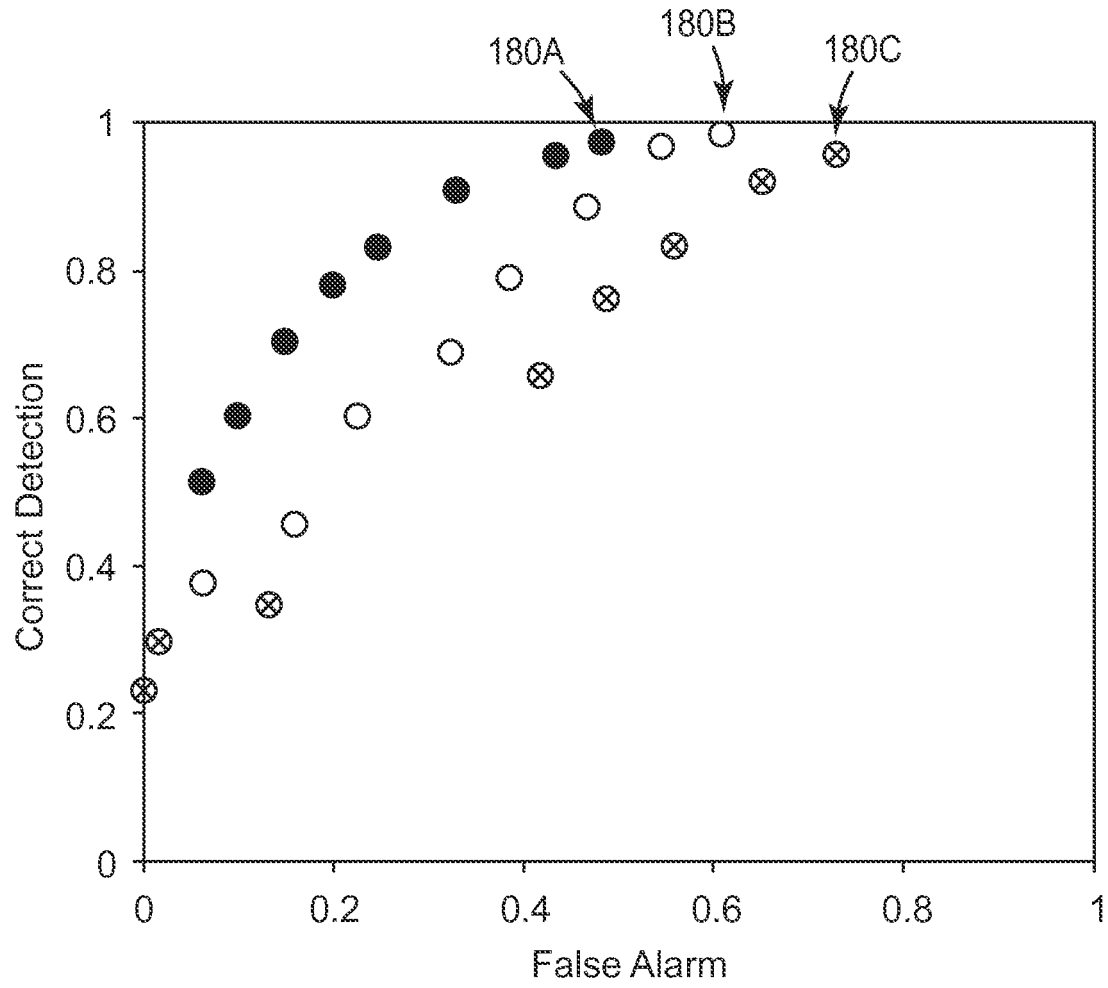
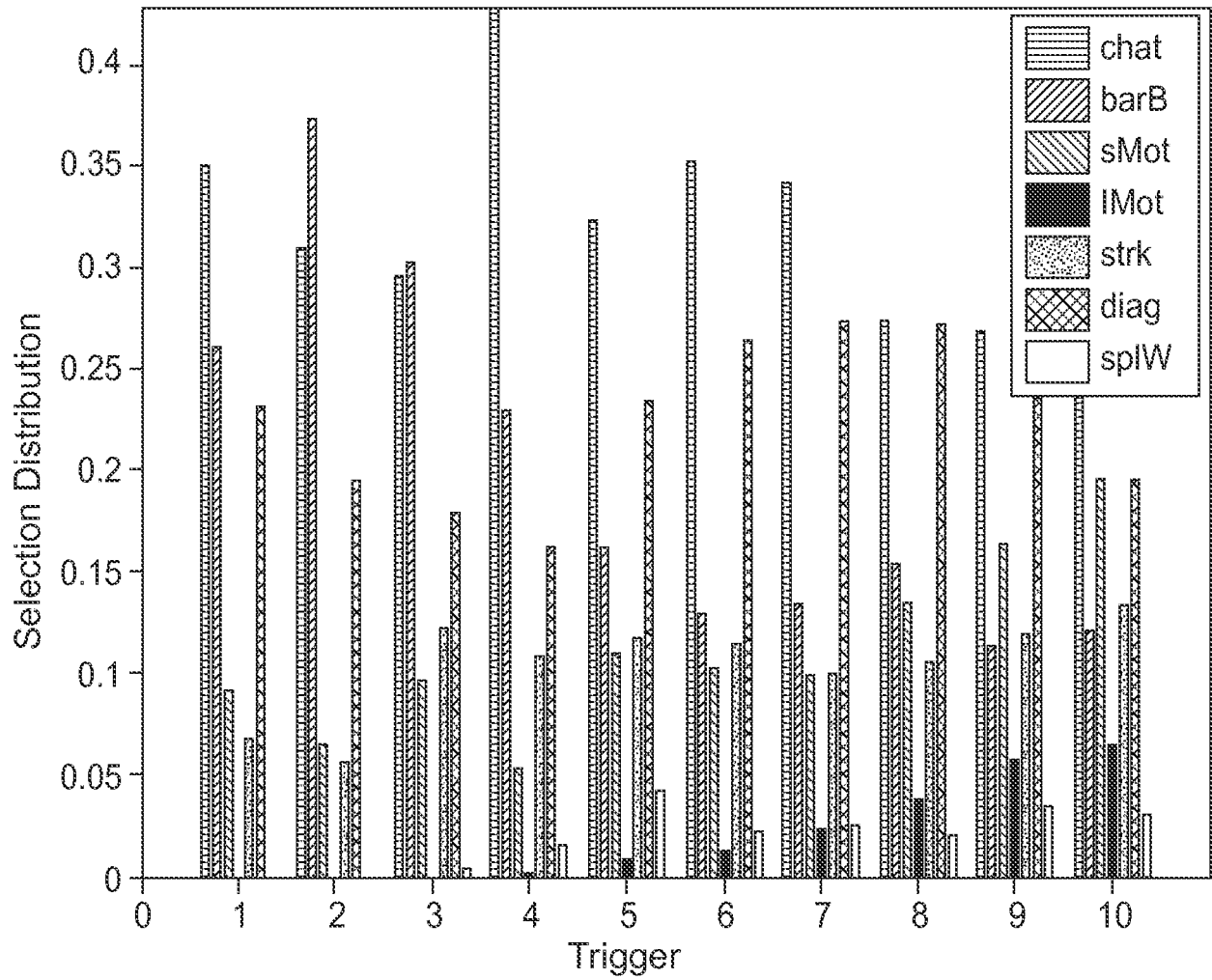


FIG. 16

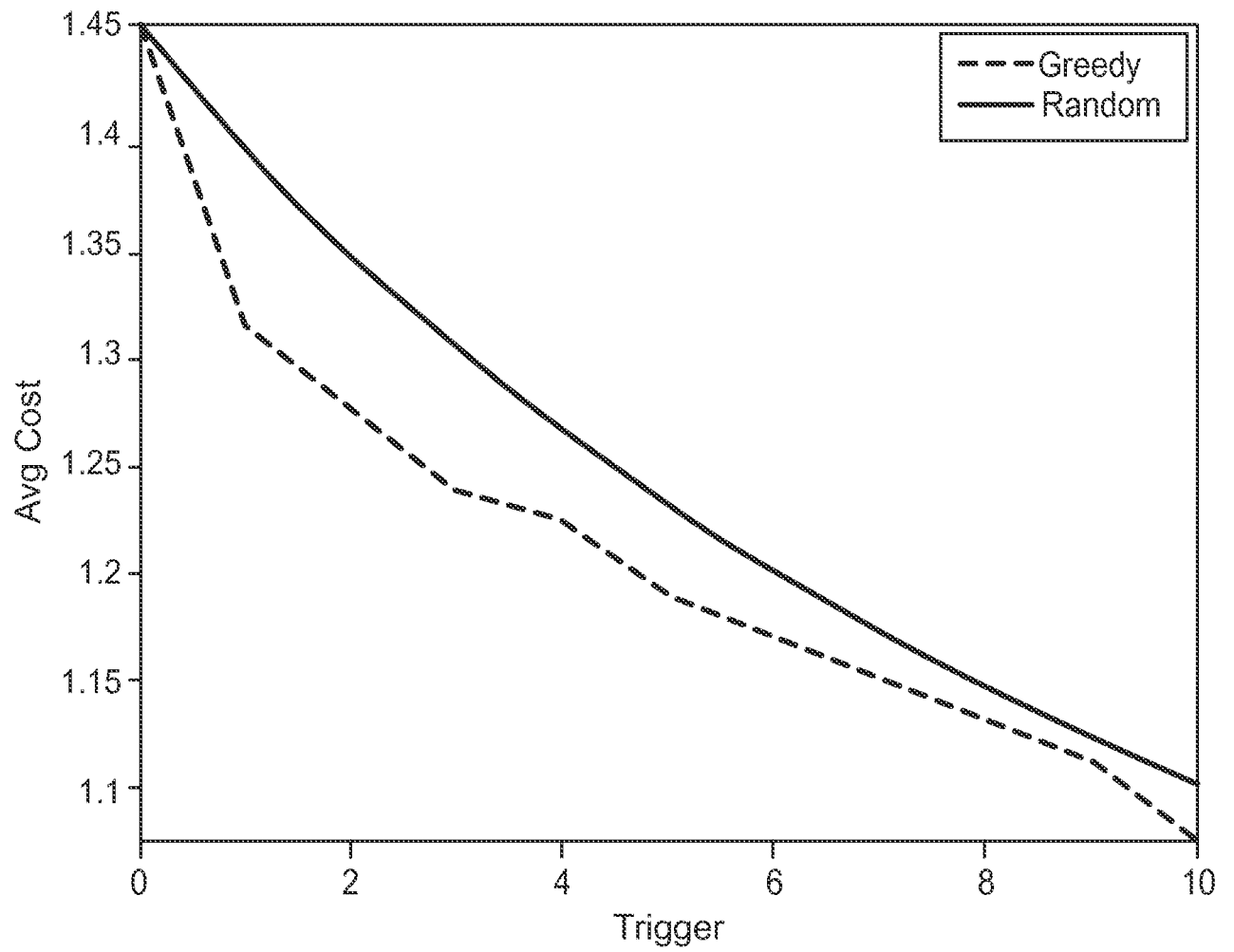
16/19

*FIG. 17*

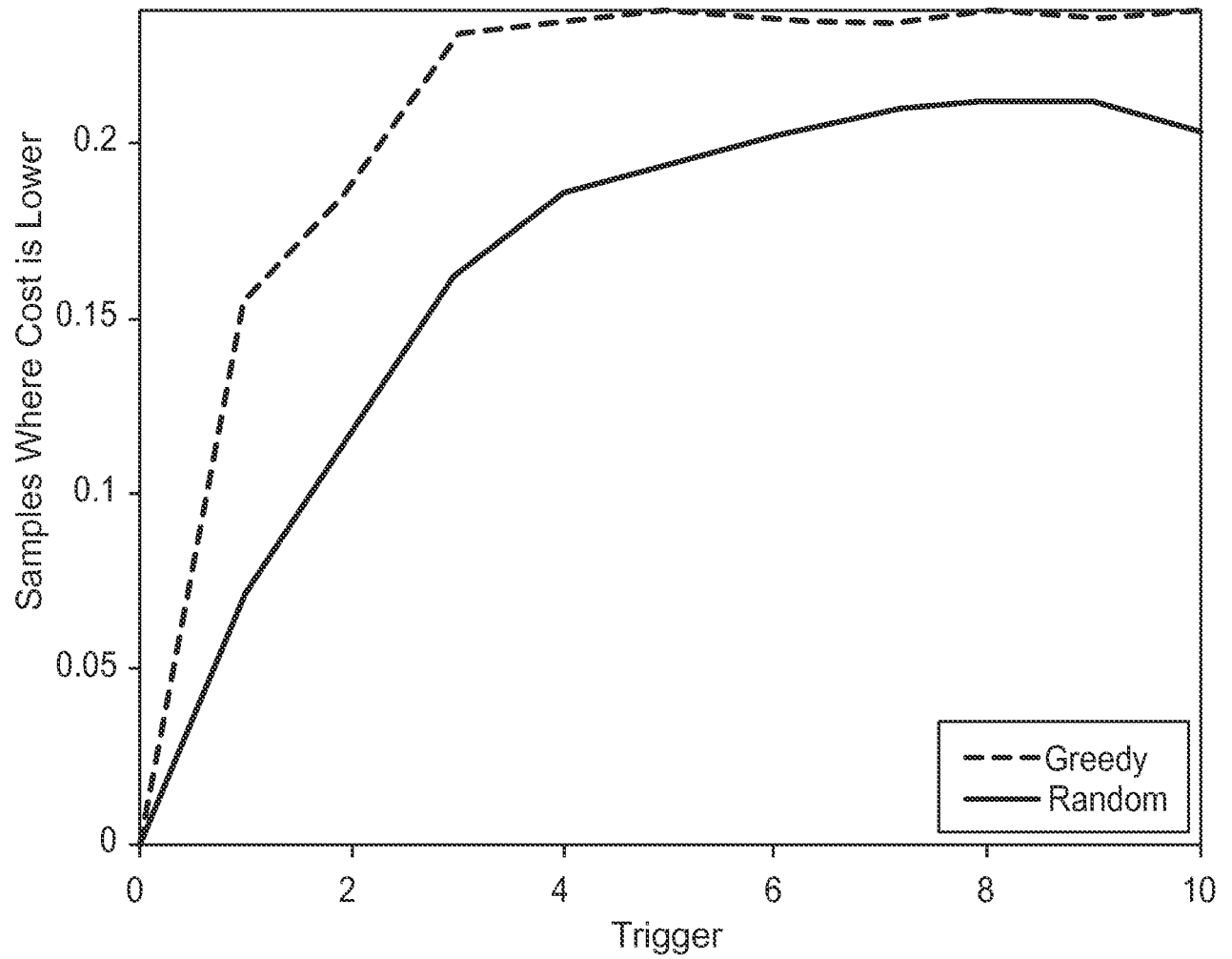
17/19

*FIG. 18*

18/19

*FIG. 19*

19/19

*FIG. 20*