

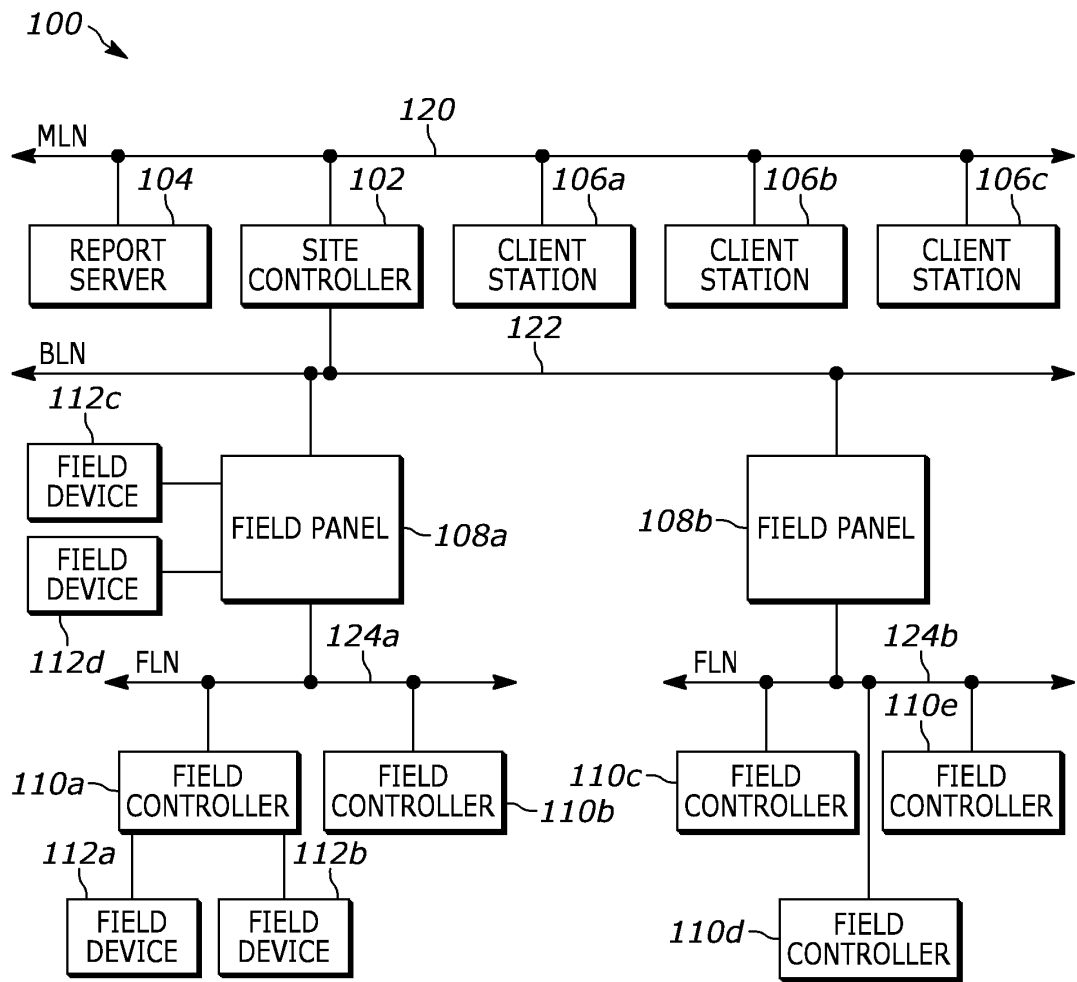


FIG. 1

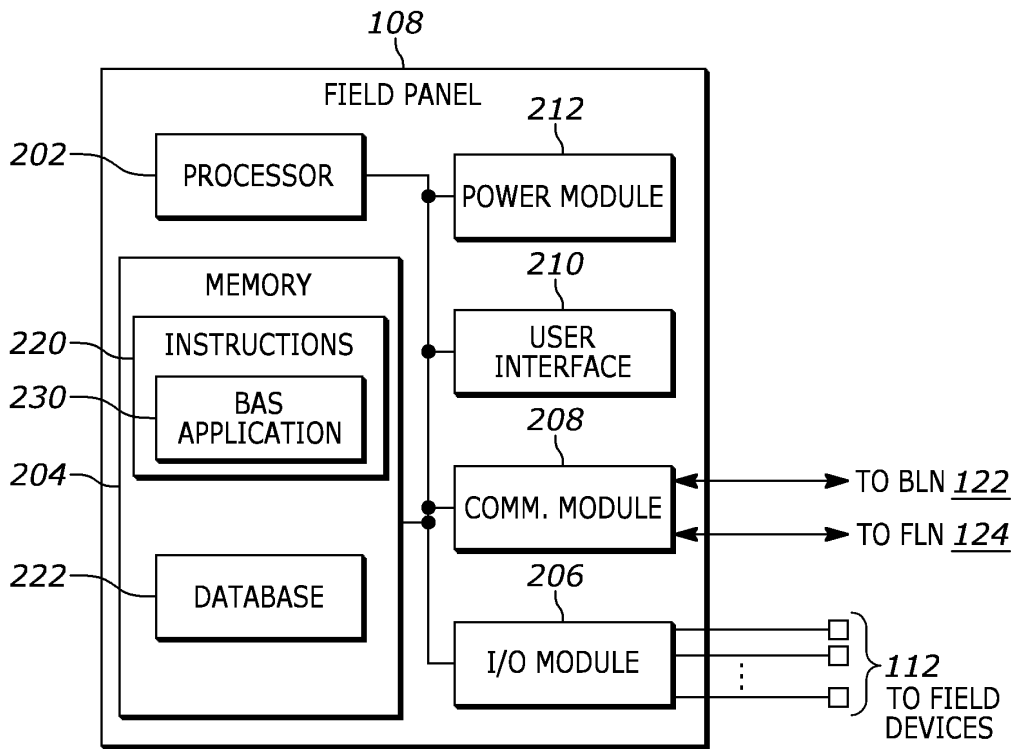


FIG. 2

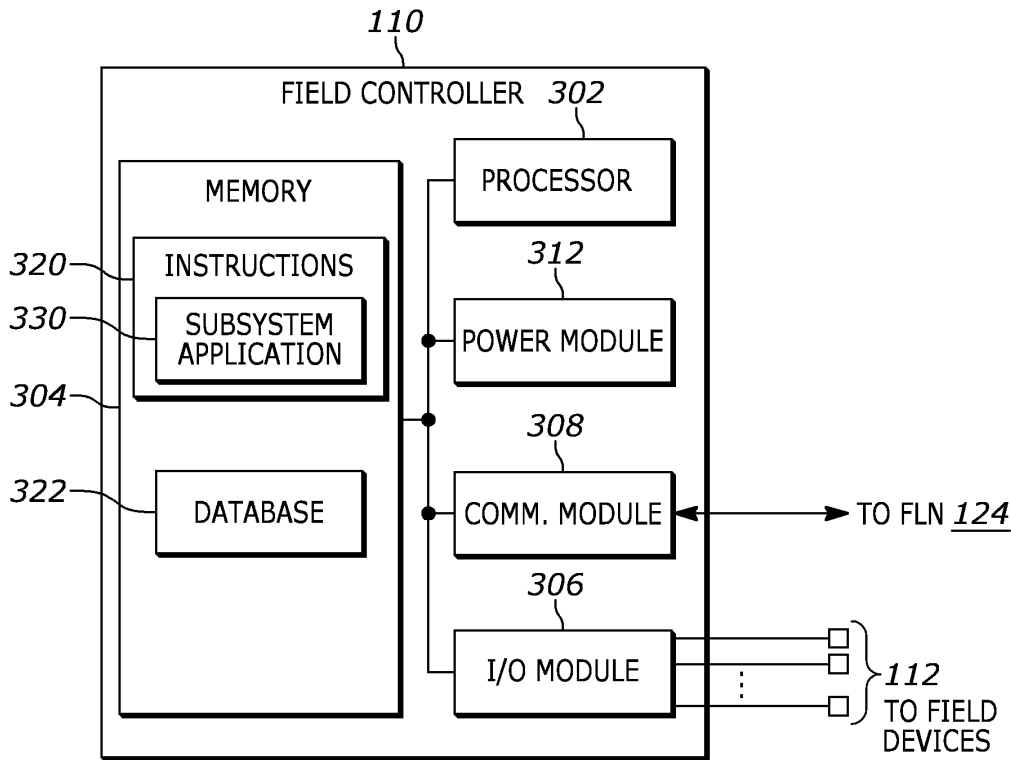


FIG. 3

3/17

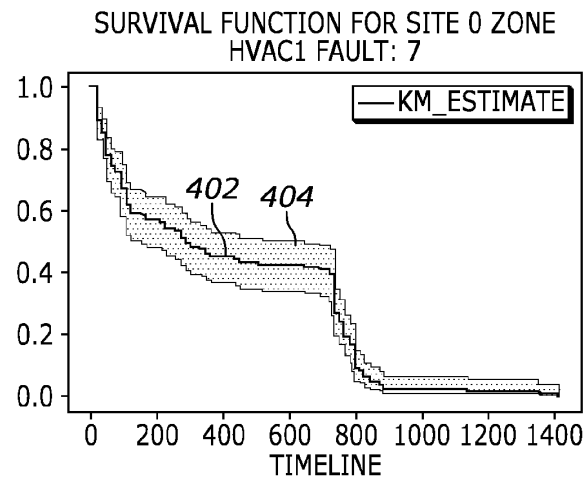


FIG. 4A

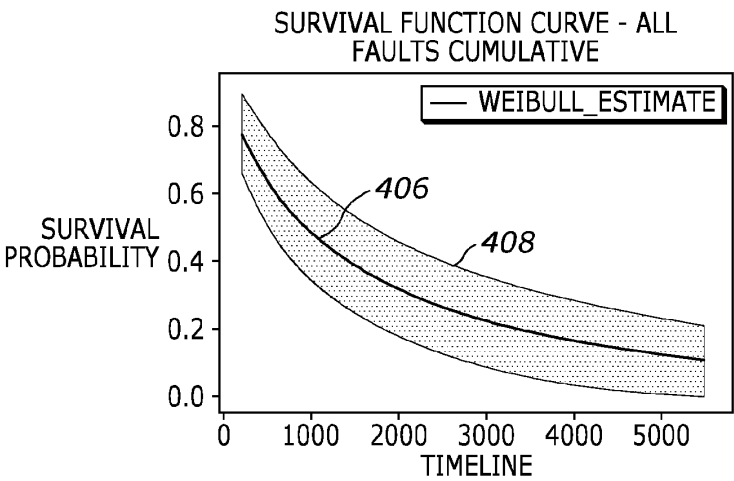


FIG. 4B

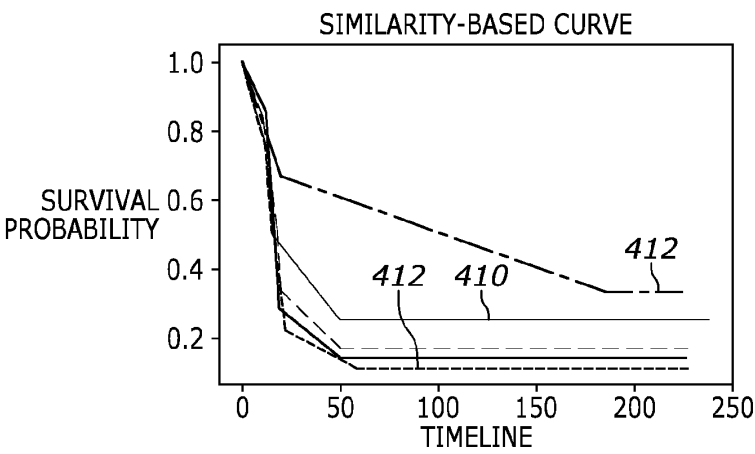


FIG. 4C

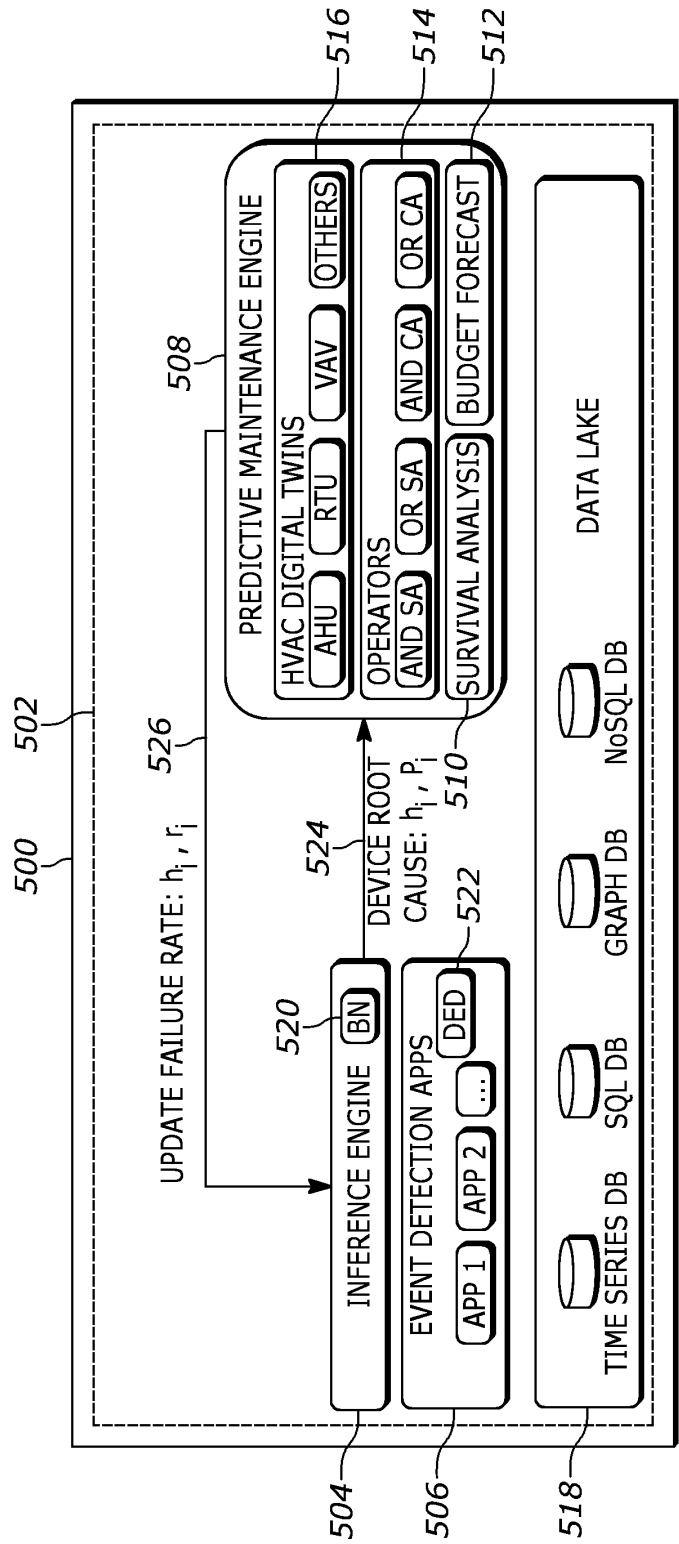


FIG. 5

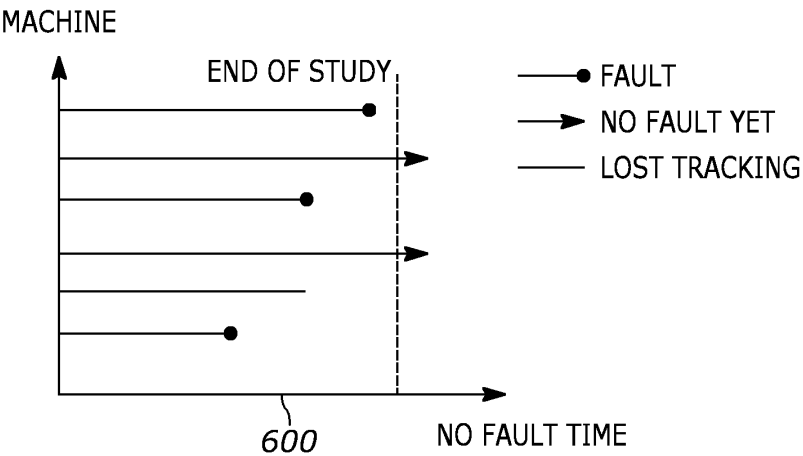


FIG. 6

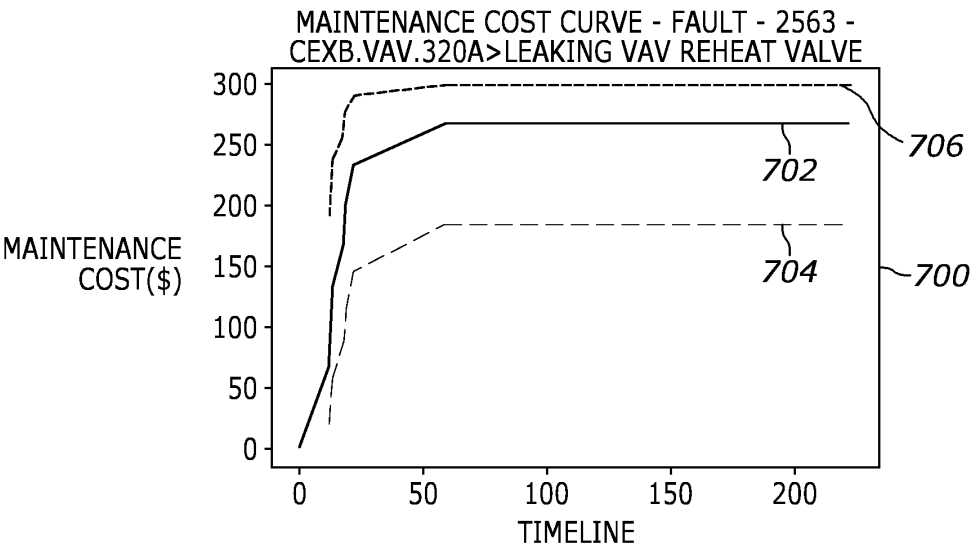


FIG. 7

800

TIME	DEVICE	SITE	EVENT	PROBABILITY	MANUAL
10/1/2019 9:01	VALVE 1	BUILDING 1	FAULT	92	NO
10/1/2019 10:30	VALVE 1	BUILDING 1	FAULT VERIFIED AND VALVE REPLACED	100	YES
10/2/2019 11:20	VALVE 2	BUILDING 2	FAULT	72	NO

FIG. 8

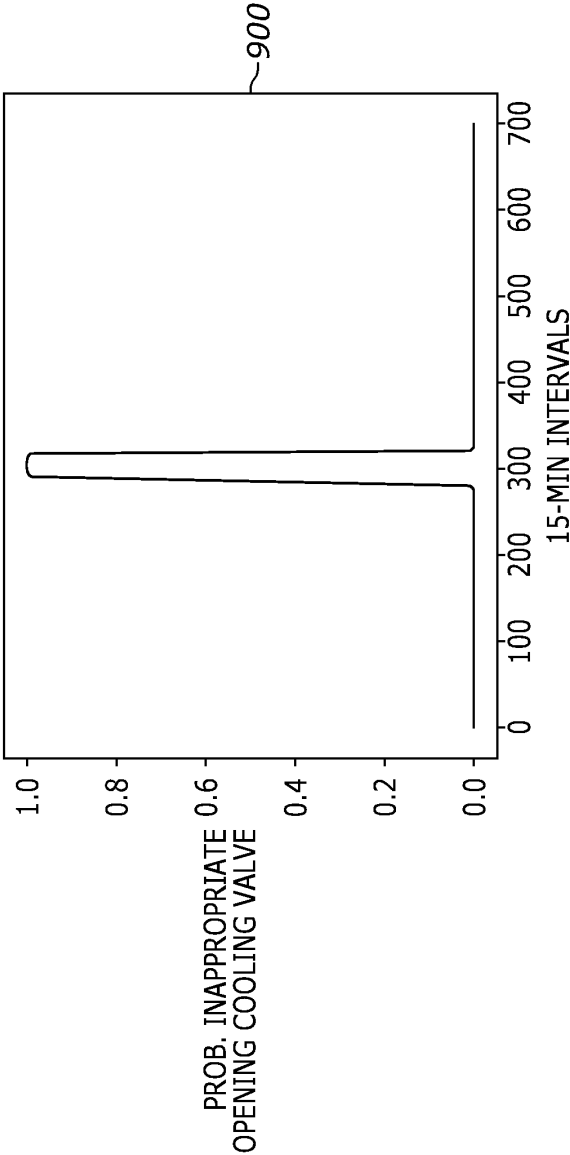


FIG. 9

1000

TIME	PROBABILITY OF FAILURE
1.00	0.2
1.01	0.3
1.07	0.4
1.10	0.9

FIG. 10

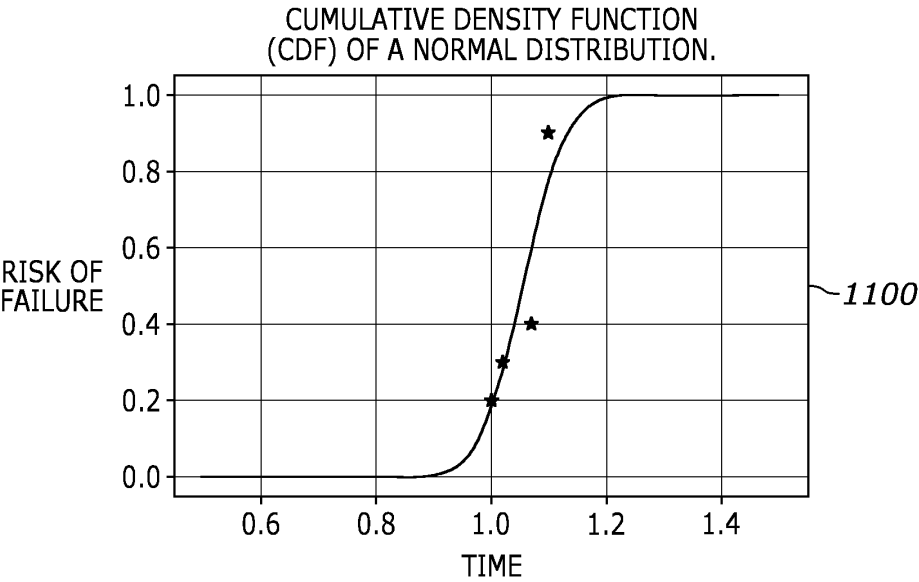


FIG. 11

8/17

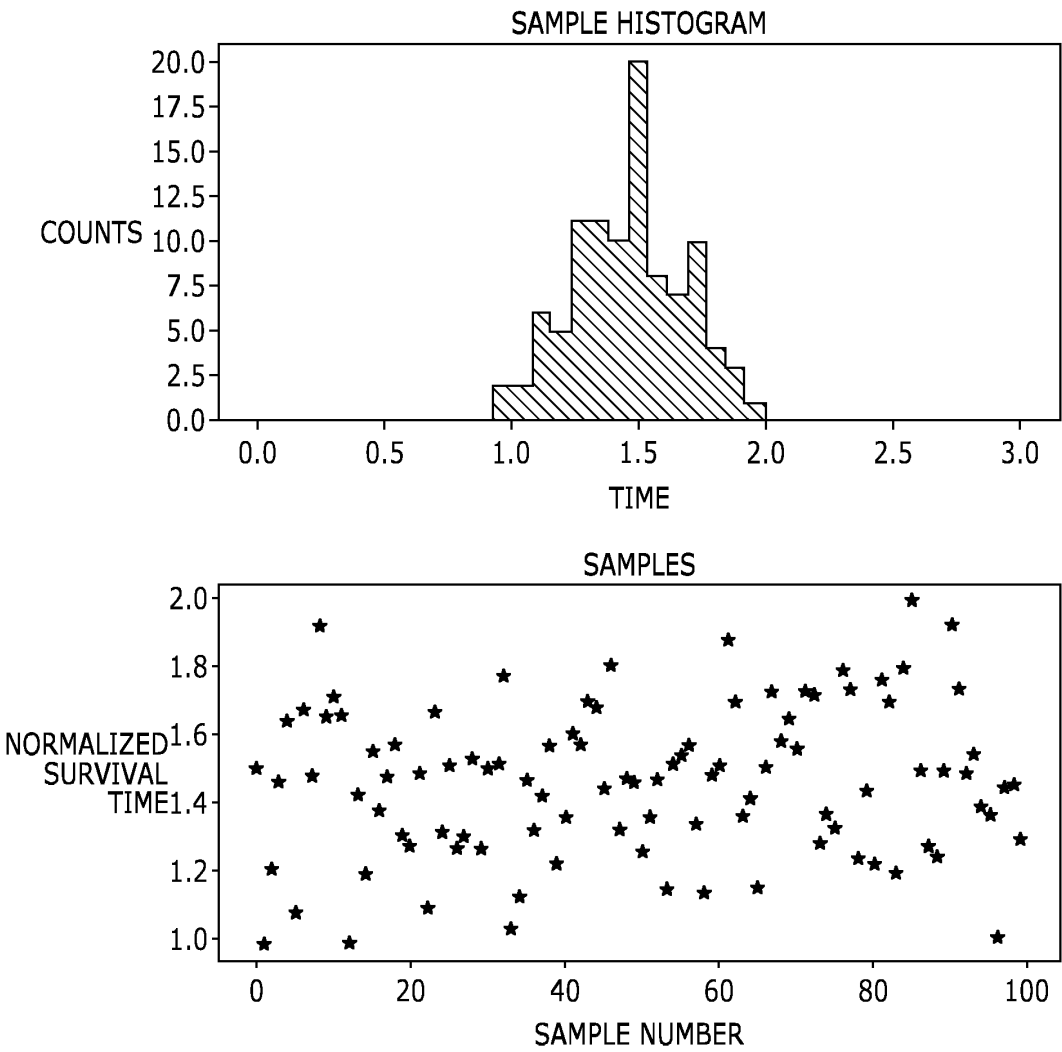
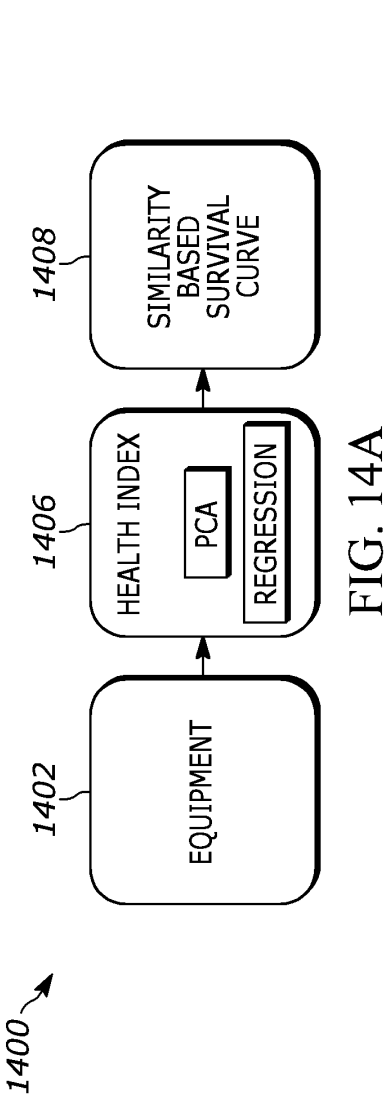
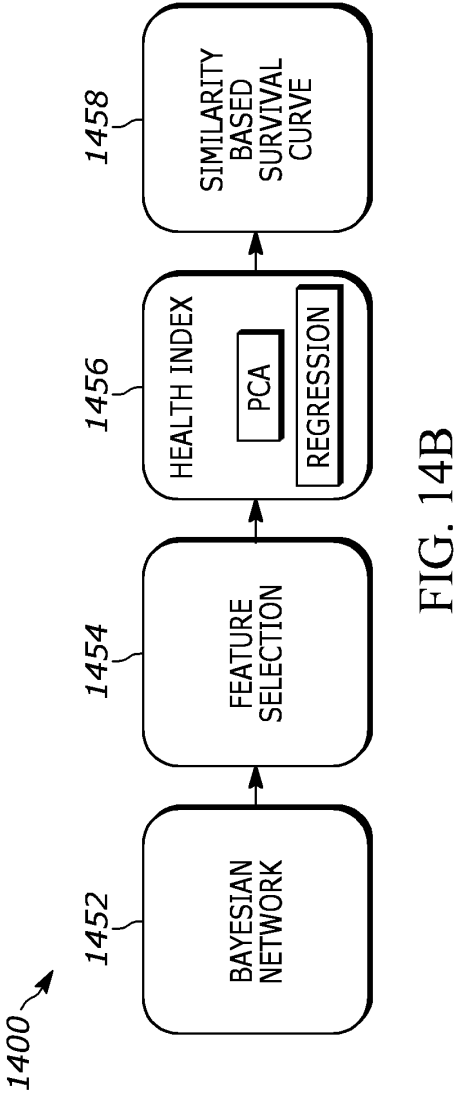


FIG. 12

1300

NORMALIZED TIME	PROBABILITY
1.49723115	1
0.98537847	1
1.20183954	1
1.45784079	1
1.64012221	1
...	

FIG. 13



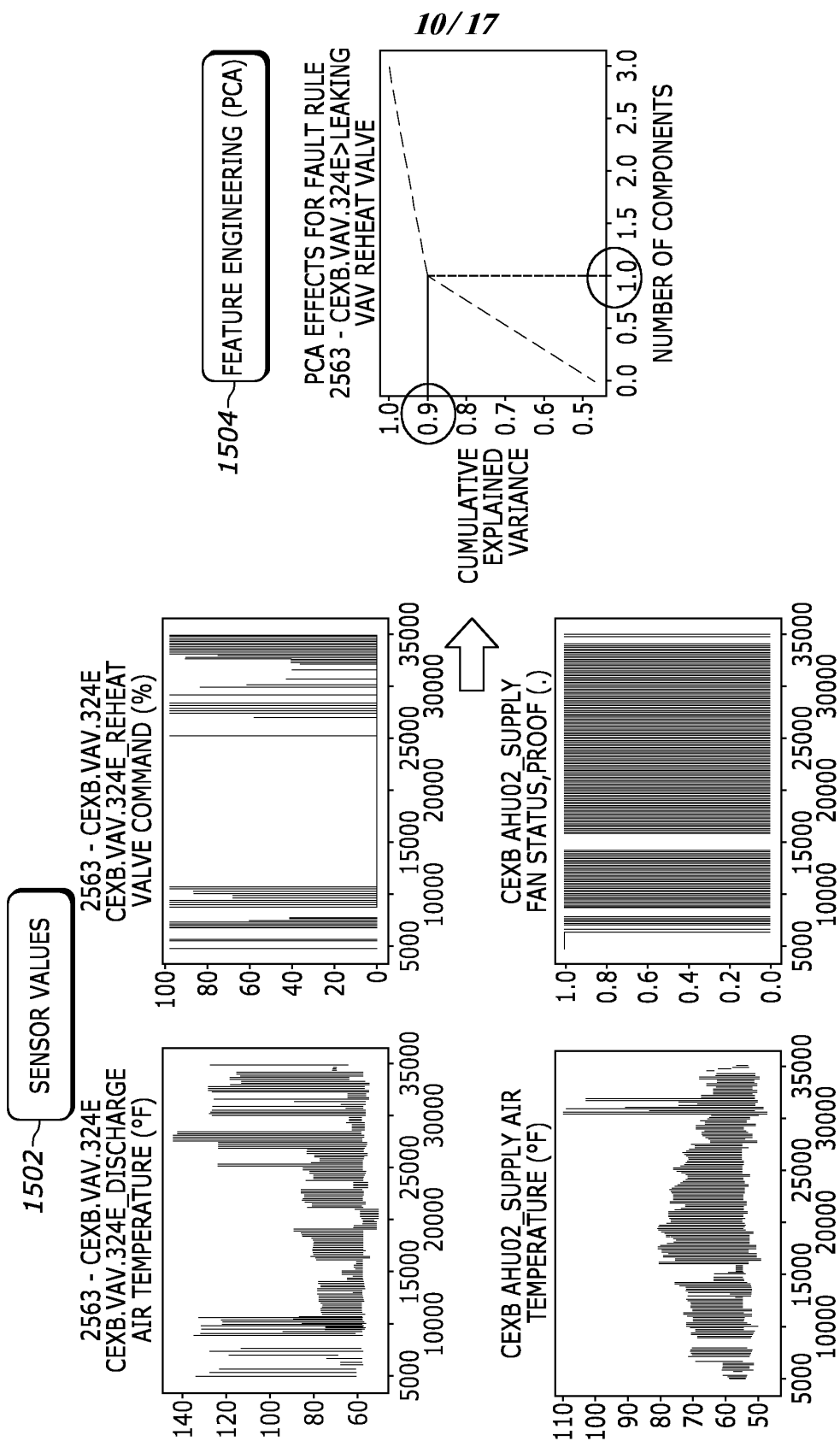


FIG. 15A

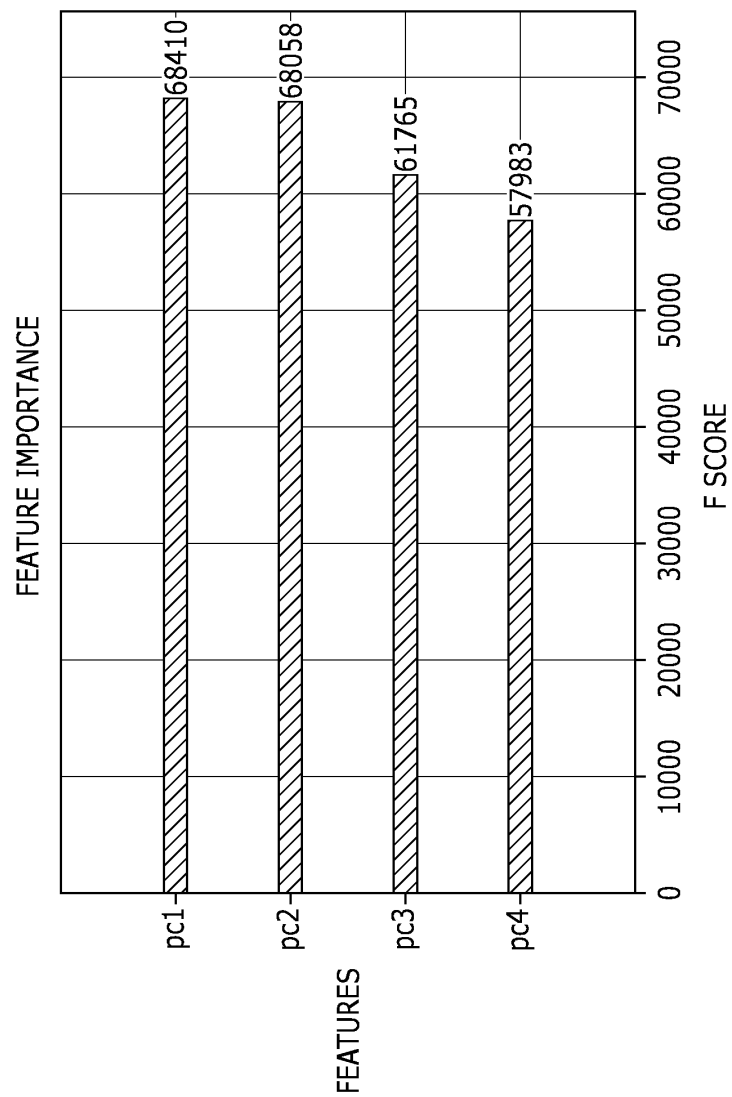


FIG. 15B

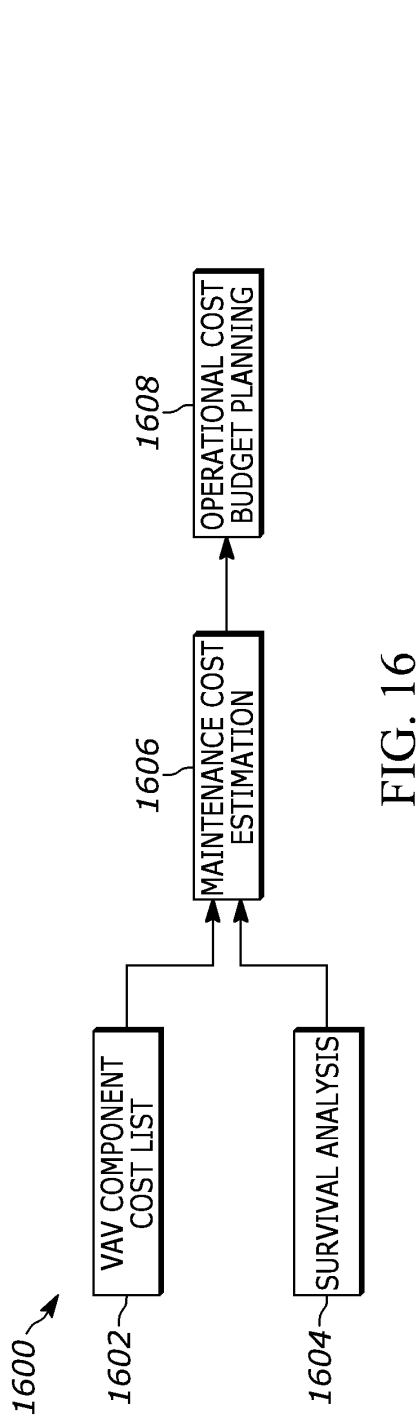


FIG. 16

12/17

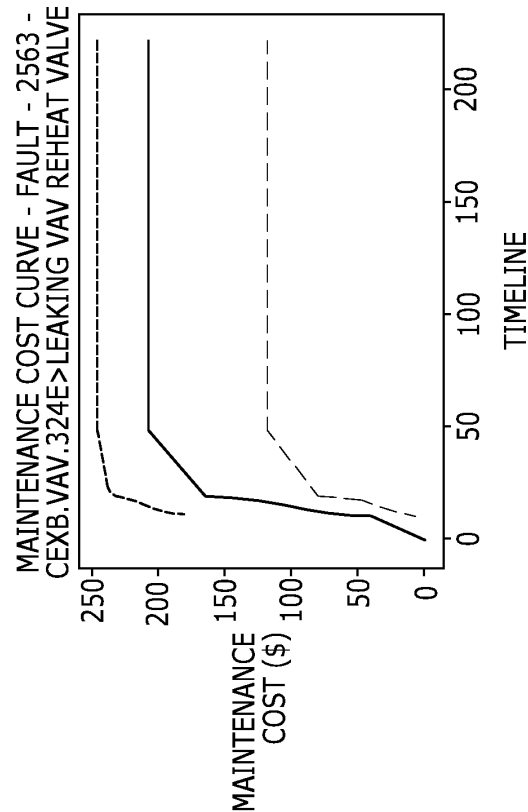


FIG. 17B

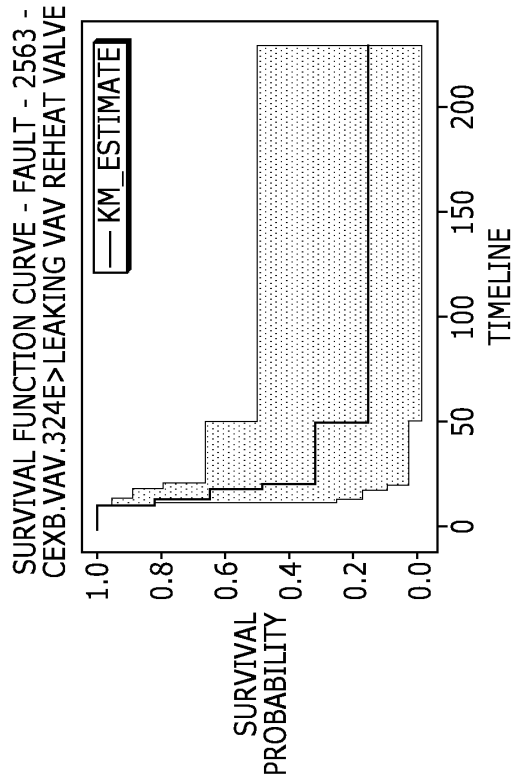


FIG. 17A

13/17

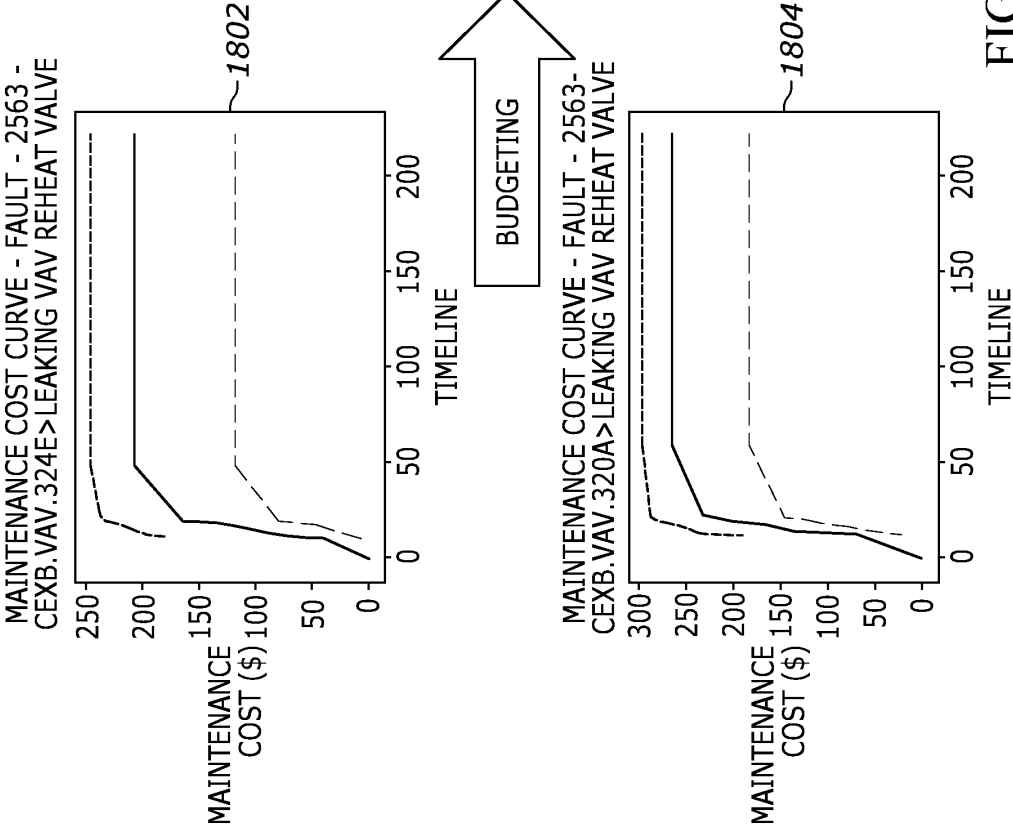


FIG. 18

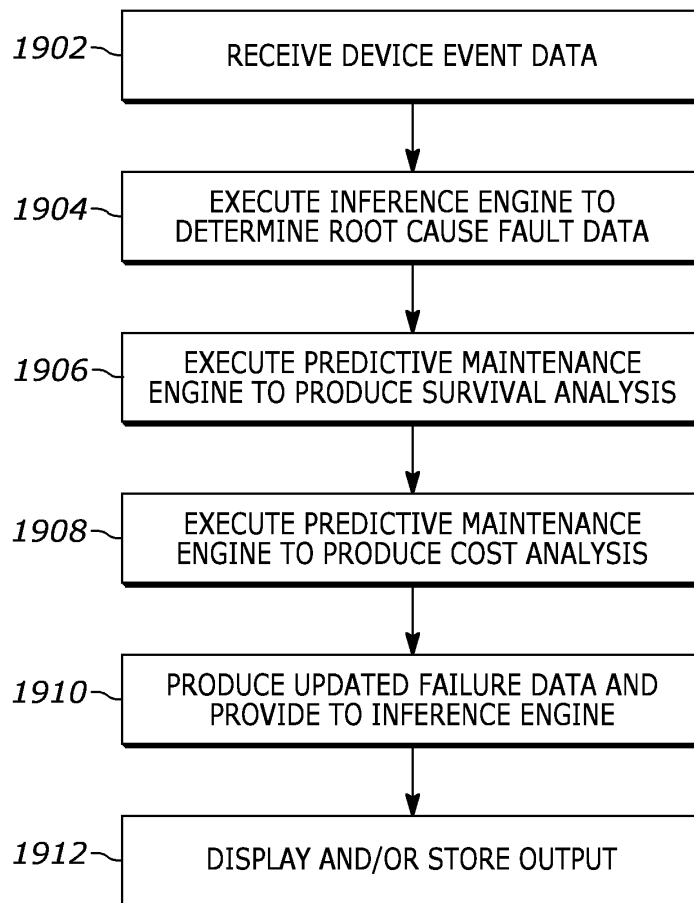
14/17

FIG. 19

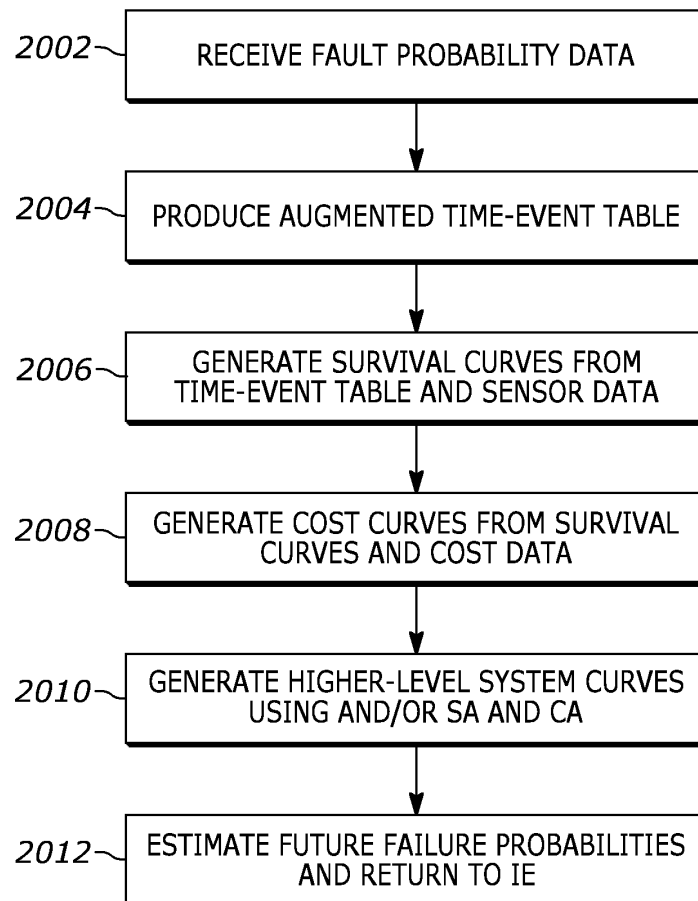
15/17

FIG. 20

16/17

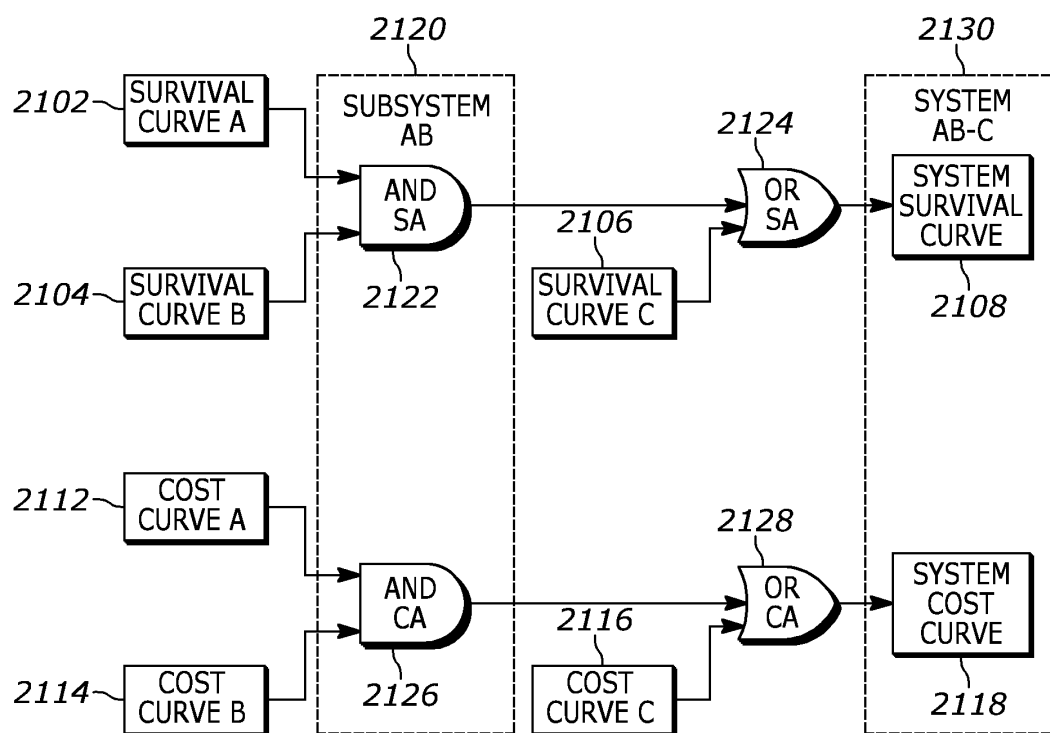


FIG. 21

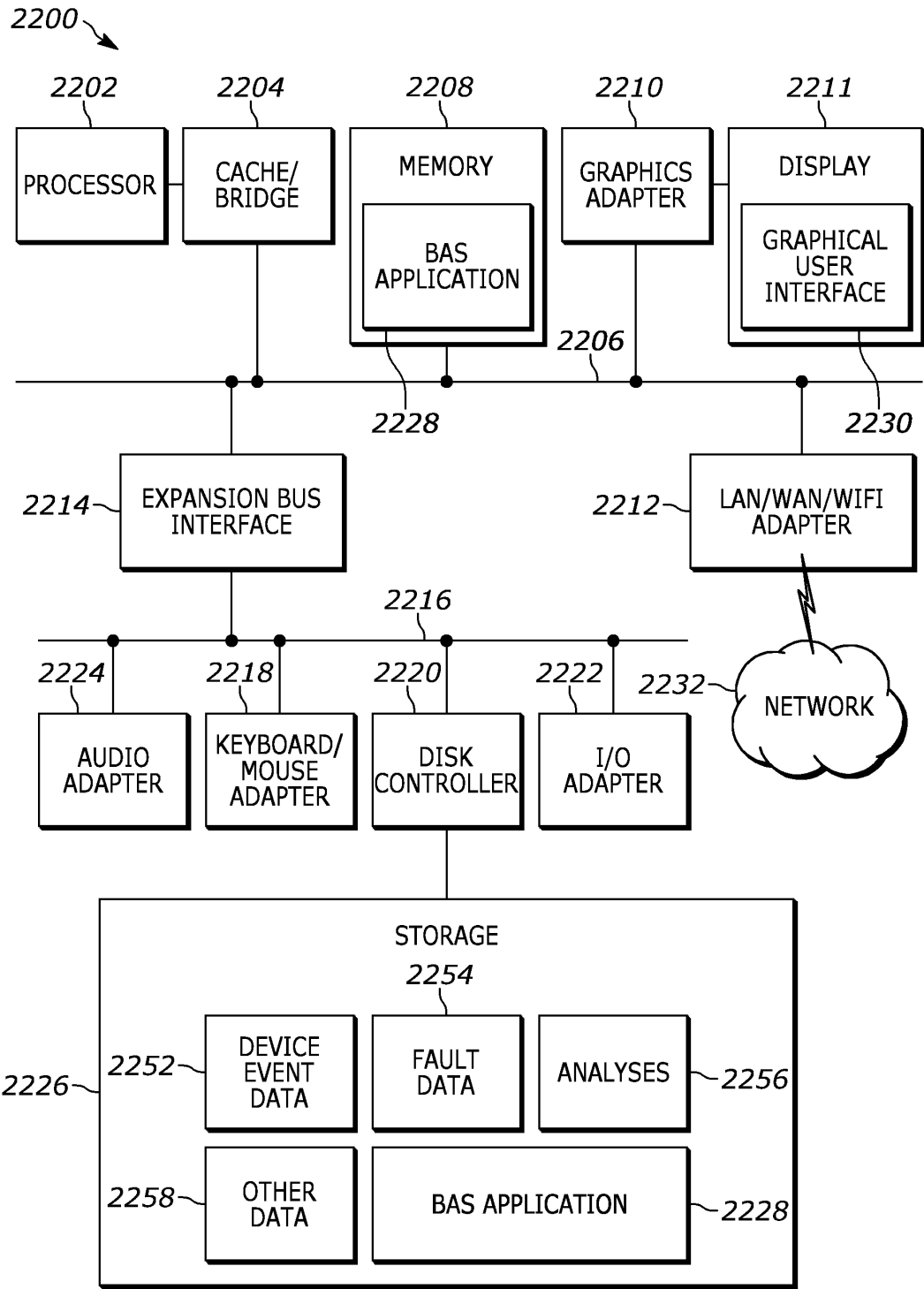


FIG. 22