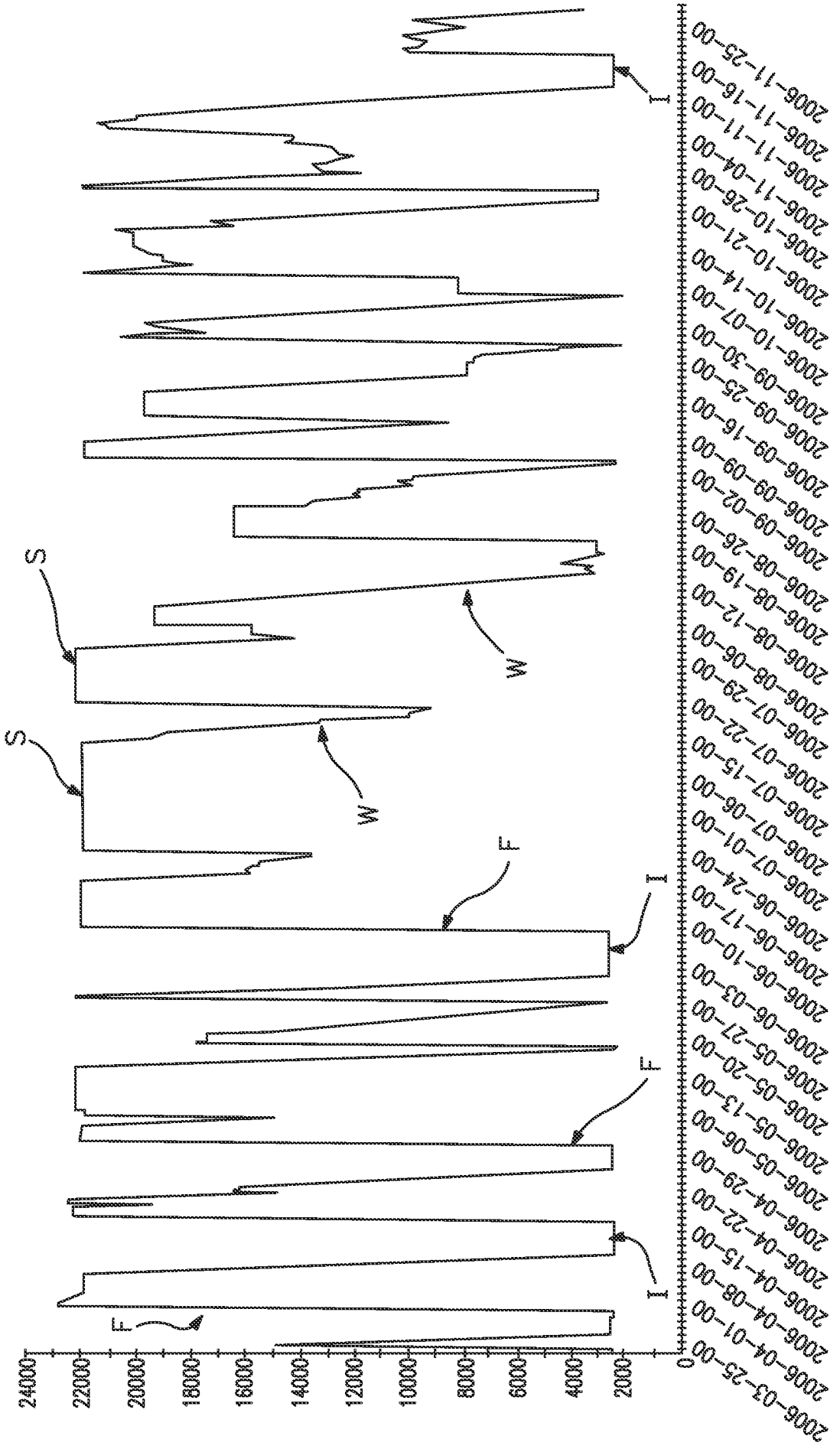

24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2006-03-25-00
2006-04-01-00
2006-04-08-00
2006-04-15-00
2006-04-22-00
2006-04-29-00
2006-05-06-00
2006-05-13-00
2006-05-20-00
2006-05-27-00
2006-06-03-00
2006-06-10-00
2006-06-17-00
2006-06-24-00
2006-07-01-00
2006-07-06-00
2006-07-15-00
2006-07-22-00
2006-07-29-00
2006-08-06-00
2006-08-12-00
2006-08-19-00
2006-08-26-00
2006-09-02-00
2006-09-09-00
2006-09-16-00
2006-09-25-00
2006-09-30-00
2006-10-07-00
2006-10-14-00
2006-10-21-00
2006-10-26-00
2006-11-04-00
2006-11-11-00
2006-11-16-00
2006-11-25-00
F
I
F
I
F
I
W
S
W
S
W
S
I

FIG. 1

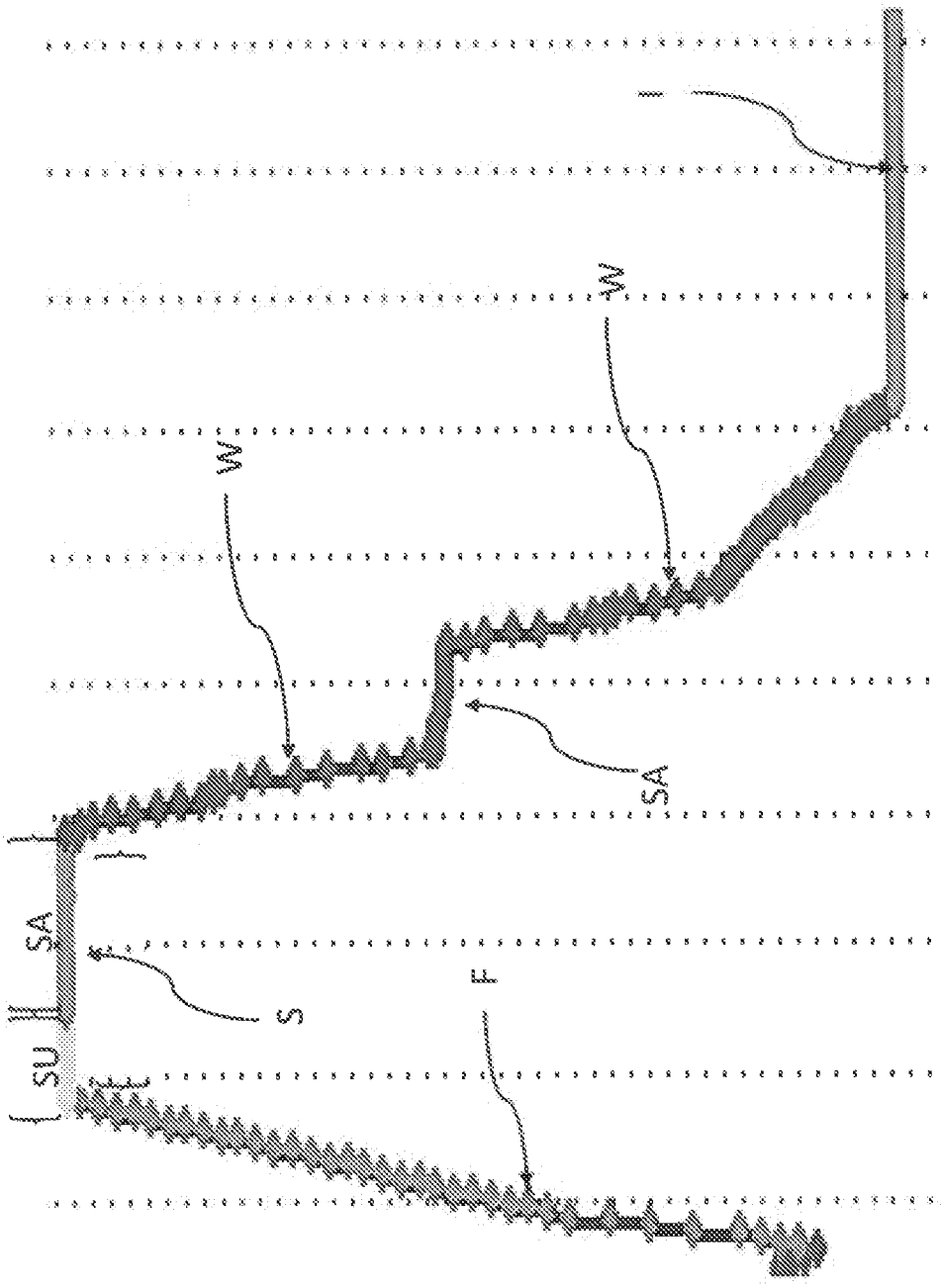


FIG. 2

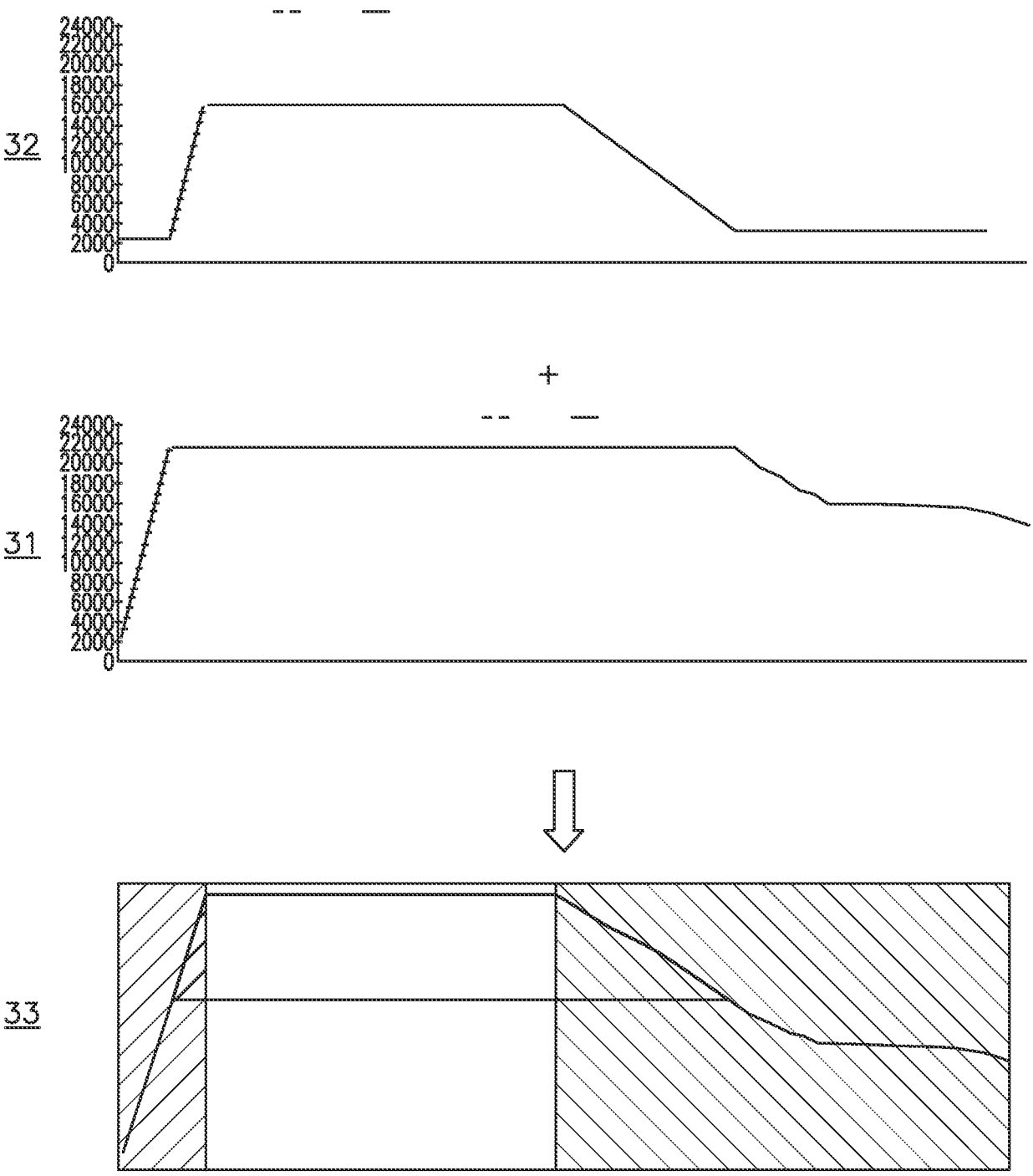

32
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
+
31
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
33

FIG. 3

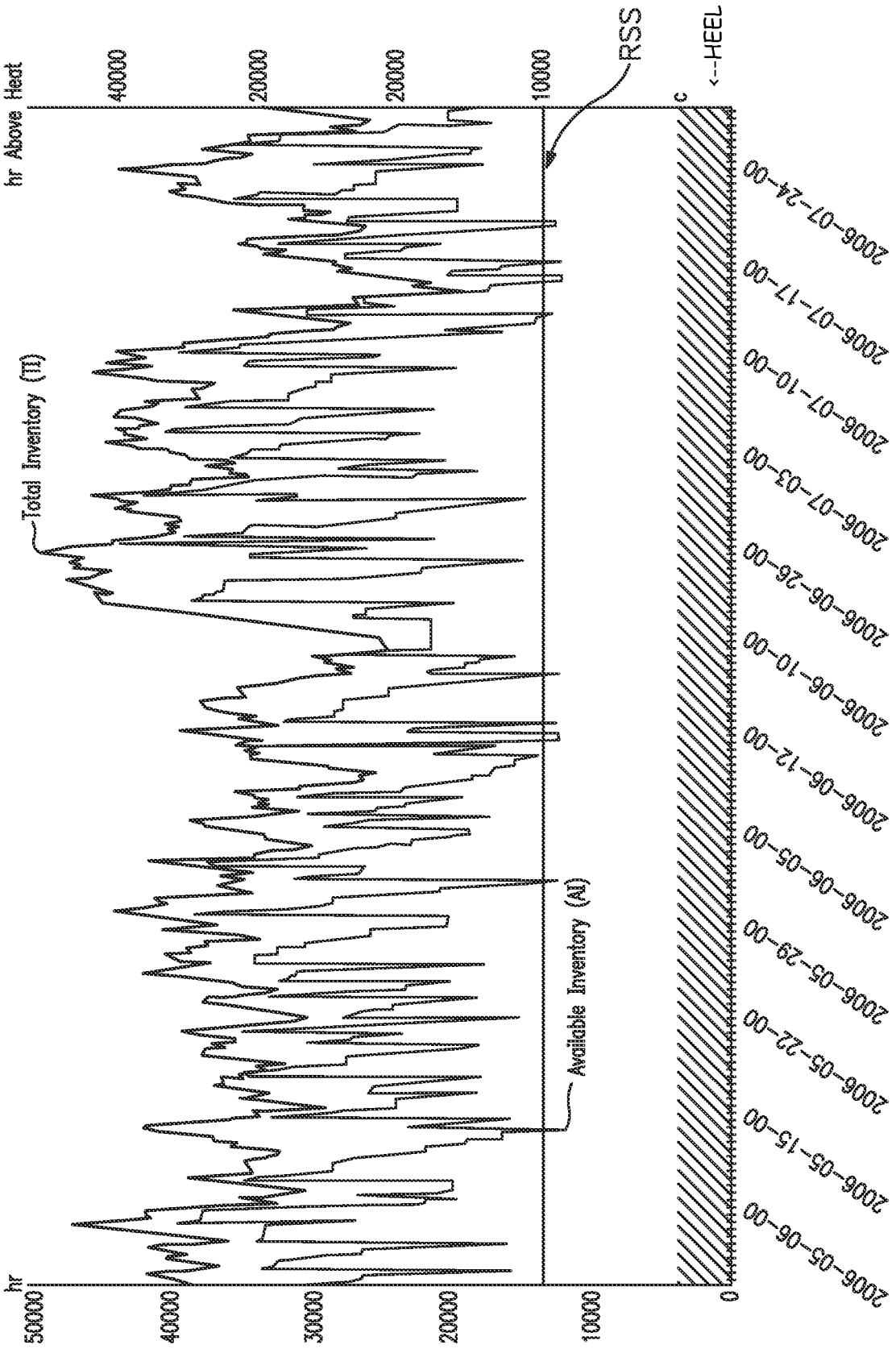

hr Above Heat
40000
20000
20000
10000
RSS
<--HEEL
Total Inventory (TI)
Available Inventory (AI)
hr
50000
40000
30000
20000
10000
0
2006-05-06-00
2006-05-15-00
2006-05-22-00
2006-05-29-00
2006-06-05-00
2006-06-12-00
2006-06-19-00
2006-06-26-00
2006-07-03-00
2006-07-10-00
2006-07-17-00
2006-07-24-00

FIG. 4

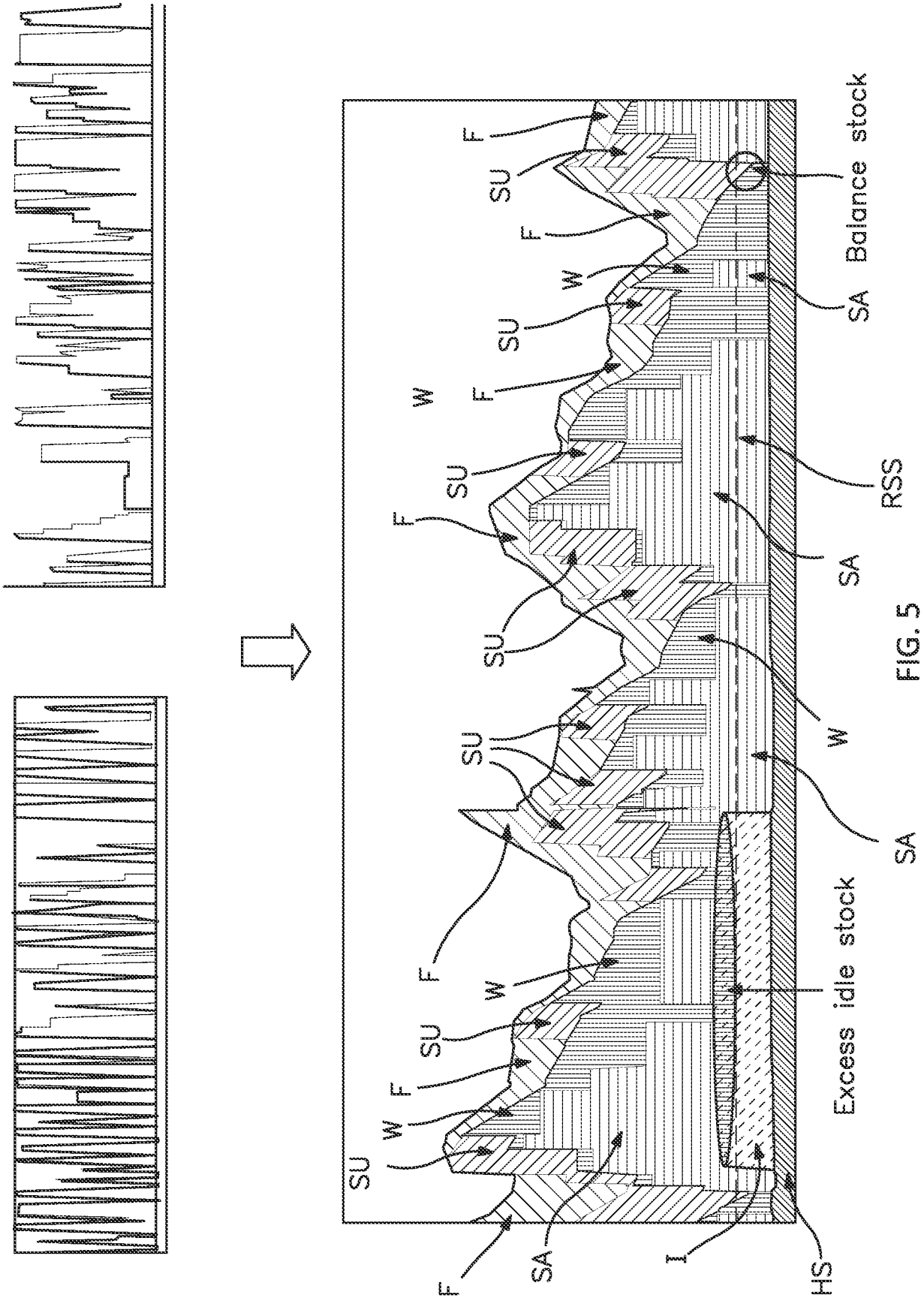

F
SU
F
W
SU
F
W
SU
F
SU
SU
W
SA
SU
F
W
SU
F
SA
I
HS
Balance stock
RSS
SA
W
SA
Excess idle stock

FIG. 5

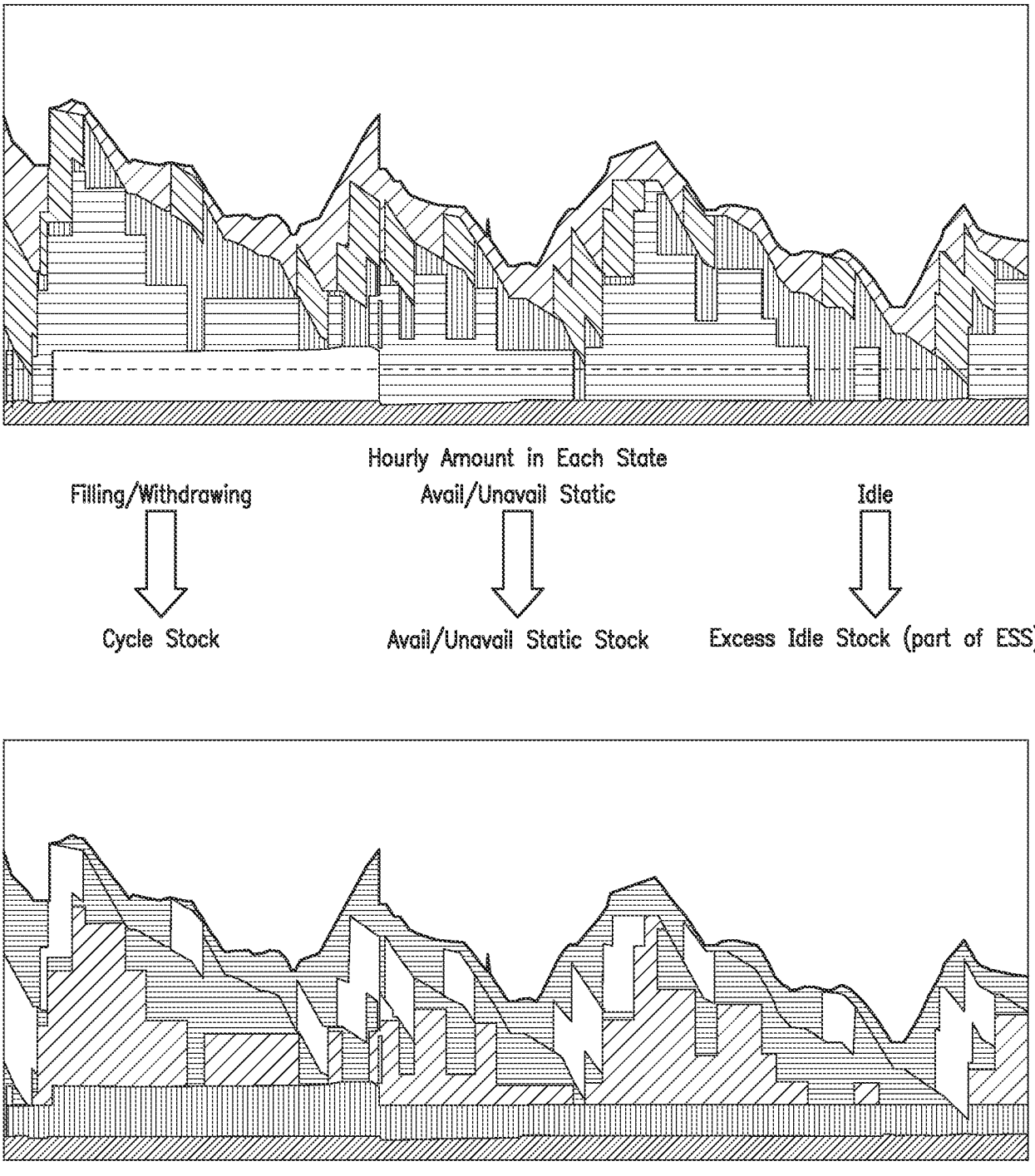

Hourly Amount in Each State
Filling/Withdrawing
Avail/Unavail Static
Idle
Cycle Stock
Avail/Unavail Static Stock
Excess Idle Stock (part of ESS)
Hourly Amount in Each Layer

FIG. 6

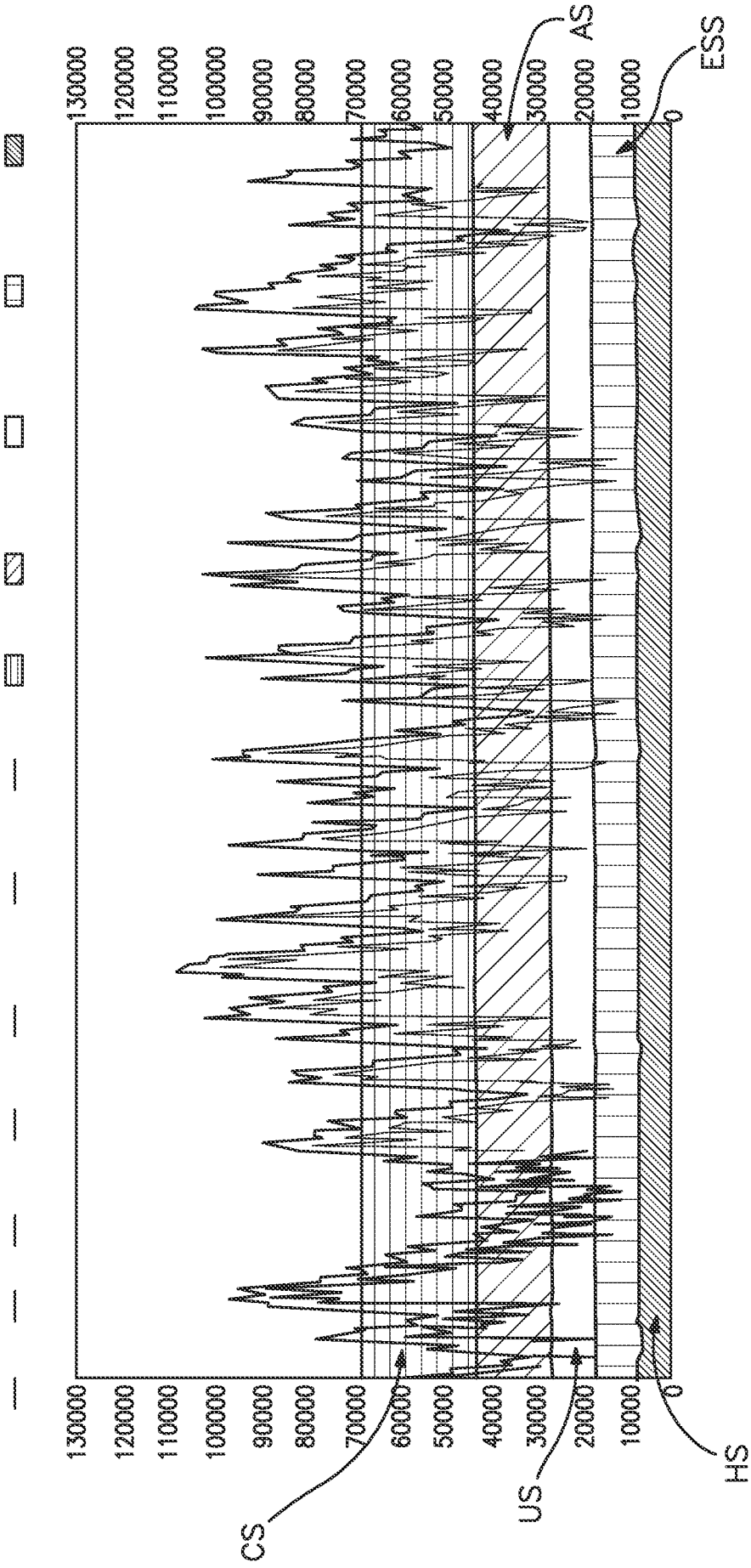

130000
120000
110000
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
AS
ESS
CS
US
HS

FIG. 7

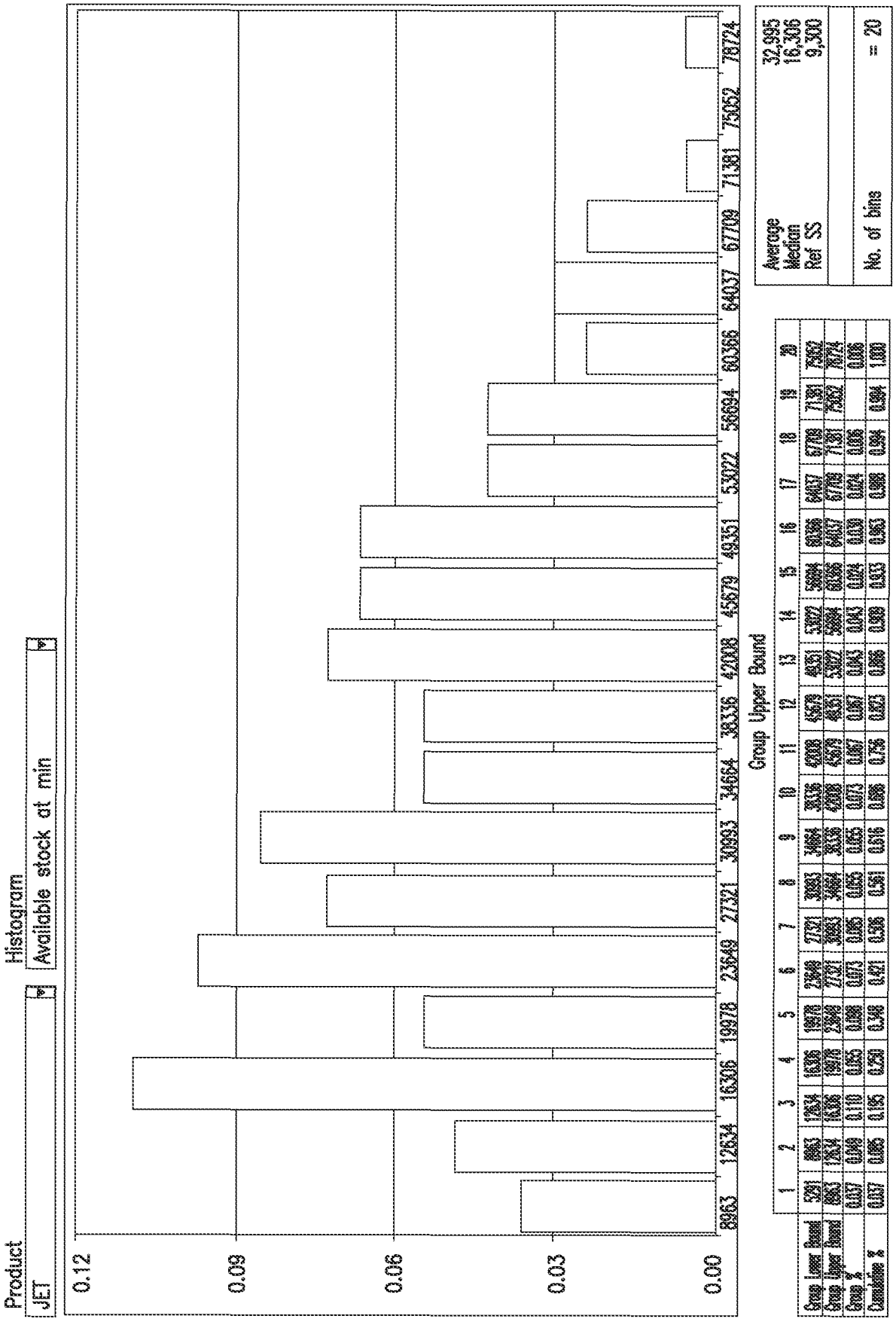

Product
JET
Histogram
Available stock at min
0.12
0.09
0.06
0.03
0.00
8963
12634
16306
19978
23649
27321
30993
34664
38336
42008
45679
49351
53022
56694
60366
64037
67709
71381
75052
78724
Group Upper Bound
Average 32,995
Median 16,306
Ref SS 9,300
No. of bins = 20
Group Lower Bound
Group Upper Bound
Group %
Cumulative %

FIG. 8

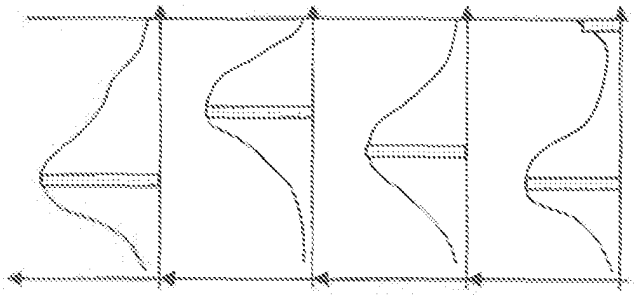

(+) skewness
Avg cycle min > most frequent cycle min
(-) skewness
Avg cycle min < most frequent cycle min
(0) skewness
Avg cycle min = most frequent cycle min
Fills are normally distributed
(+) skewness

Fig. 9

	Cycle max stability		Cycle min stability		Cycle min target		Available static stock		Excess idle stock	
	Potential volume reduction	Prize (k$/yr)	Potential volume reduction	Prize (k$/yr)	Potential volume reduction	Prize (k$/yr)	Potential volume reduction	Prize (k$/yr)	Potential volume reduction	Prize (k$/yr)
CRUDE	19,743	1,675			208,434	17,697	3,499	297		
HSGO UN-DYED	2,331	198			30,104	2,556	12,973	1,101	6,333	538
LUBES FEEDSTOCK			6,076	516	17,432	1,480	21,072	1,789	2,552	217
JET	1,939	165	17,229	1,463	6,938	589	16,624	1,411	346	29
SLOP	3,497	297	3,514	298	16,652	1,414	682	58	18,631	1,582
BFO15	301	26			15,682	1,332	6,444	547	1,724	146
VGO			10,457	888	4,140	352	4,712	400	304	26
PU 10	1,018	86			12,524	1,064	4,520	384	165	14
AD 10	1,794	152			9,849	836	5,807	493	30	3
BFO					10,447	887	5,809	493	501	43

Fig. 10

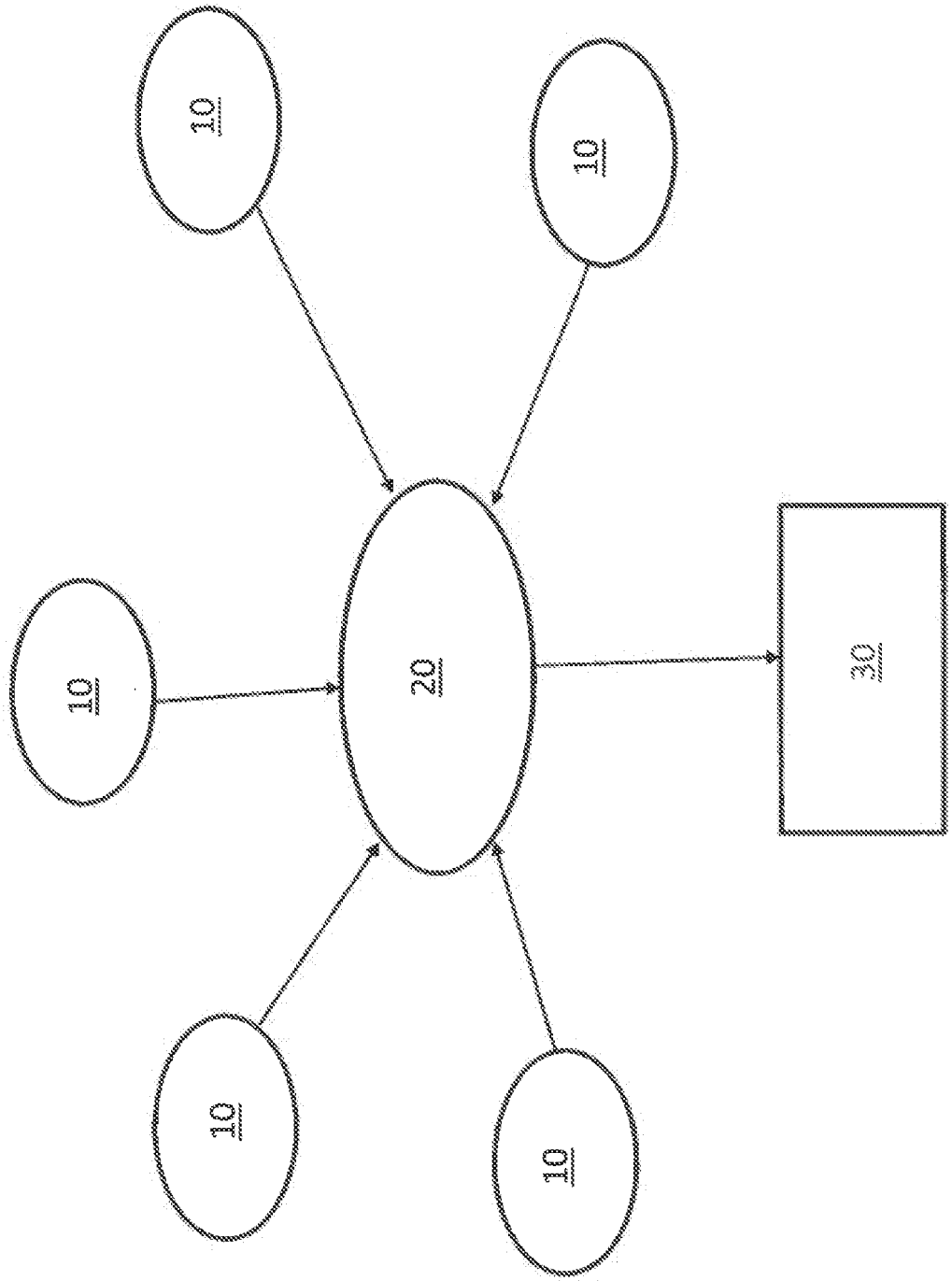


Fig. 11

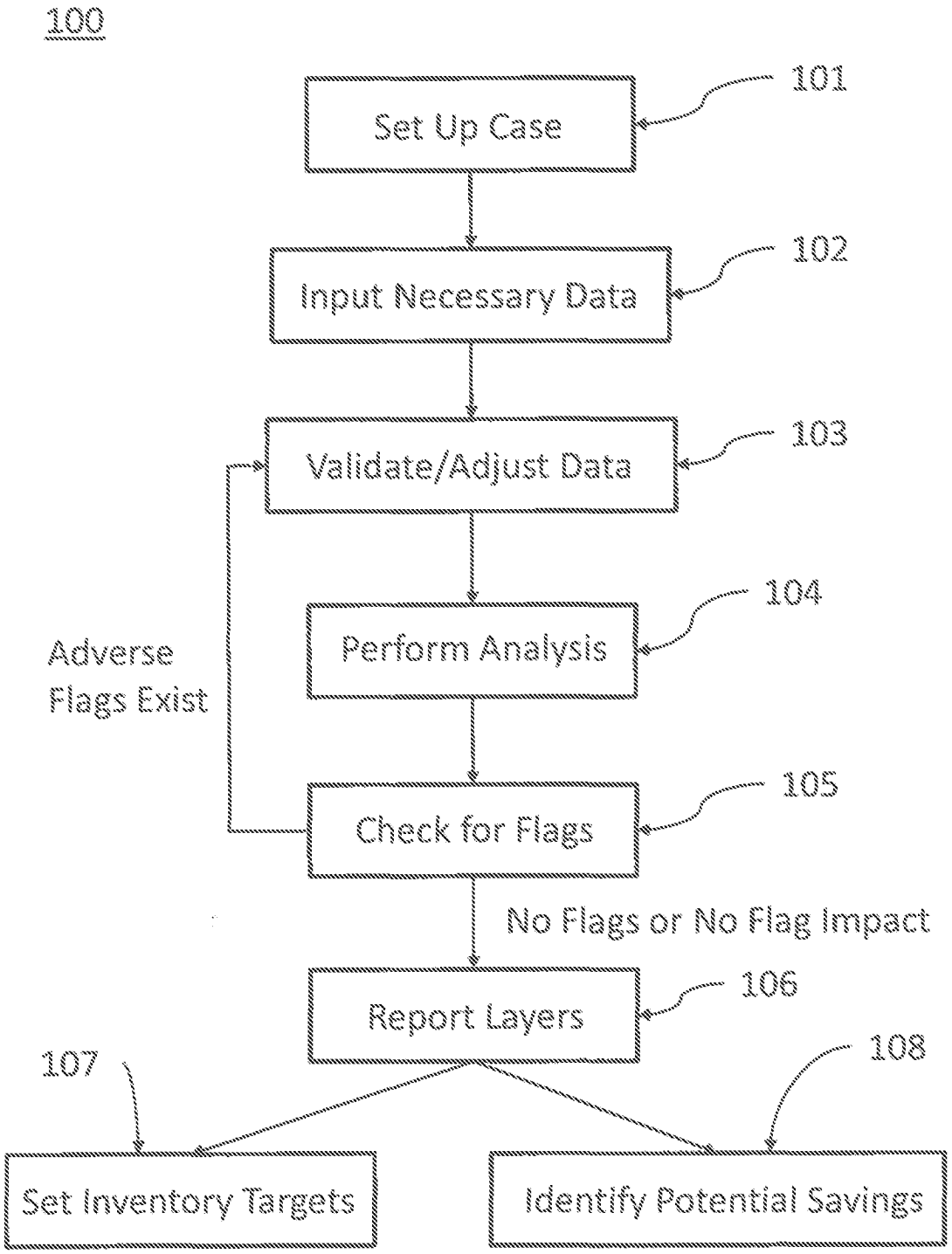

100
Set Up Case
101
Input Necessary Data
102
Validate/Adjust Data
103
Perform Analysis
104
Adverse Flags Exist
Check for Flags
105
No Flags or No Flag Impact
Report Layers
106
107
108
Set Inventory Targets
Identify Potential Savings

Fig. 12