

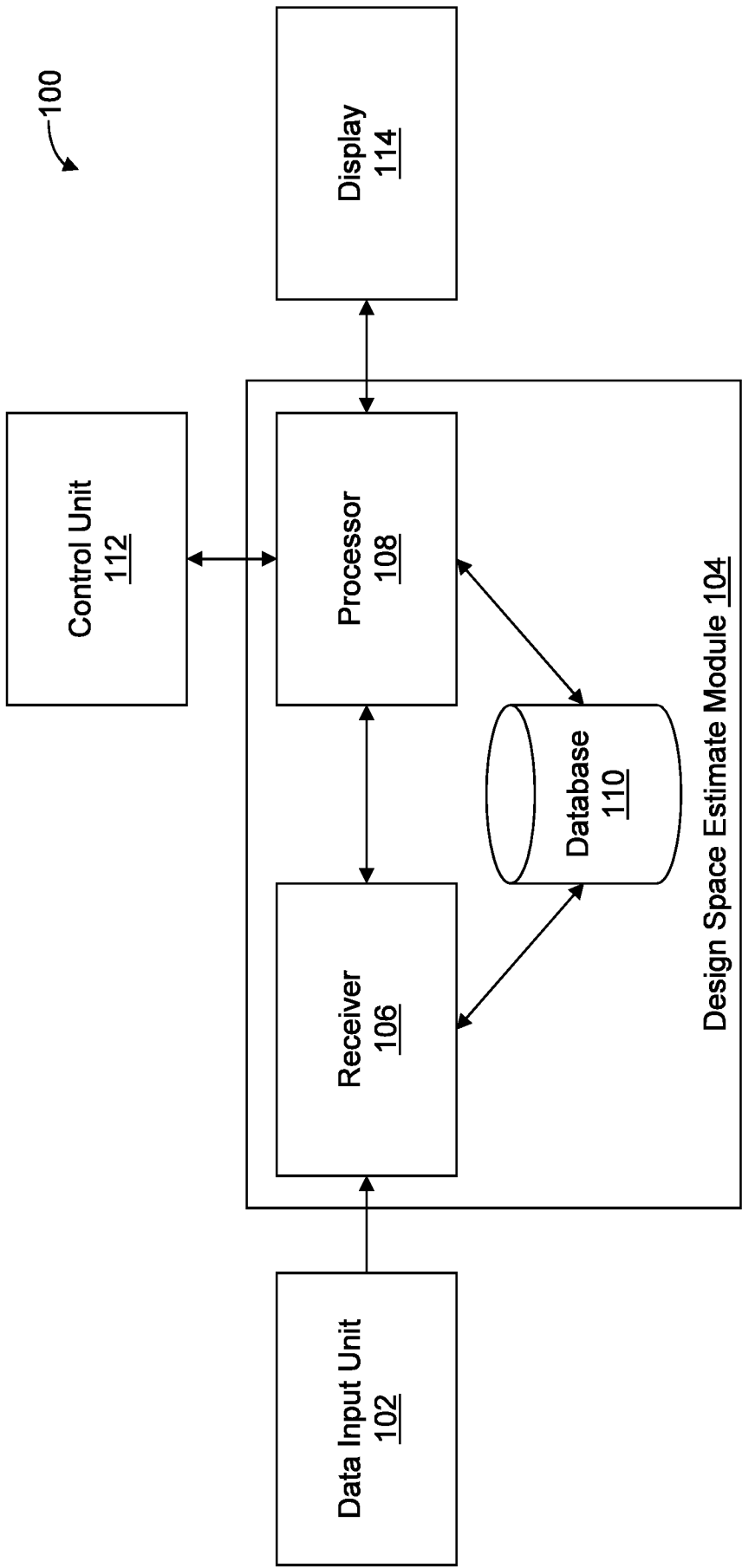


FIG. 1

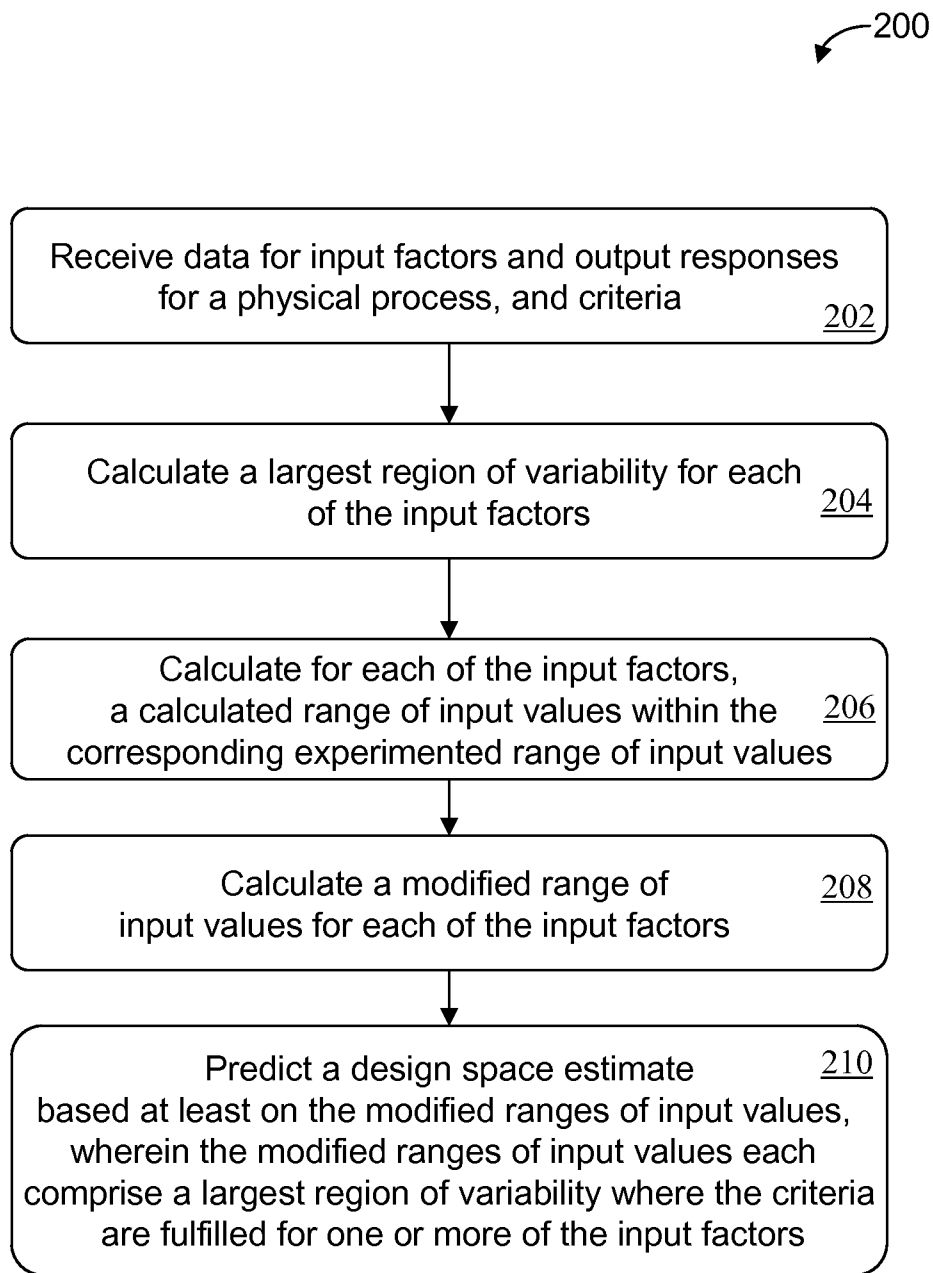


FIG. 2

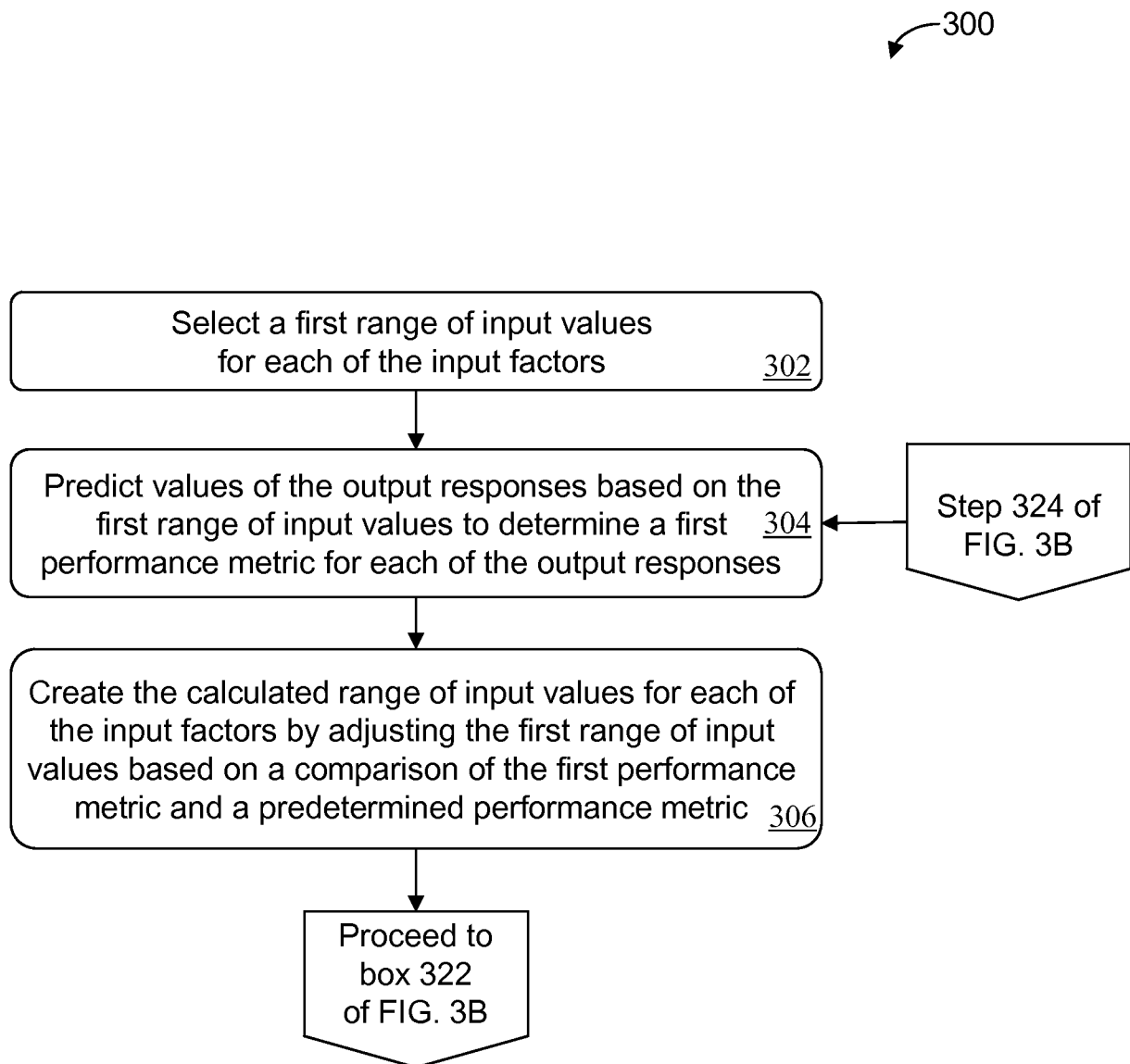


FIG. 3A

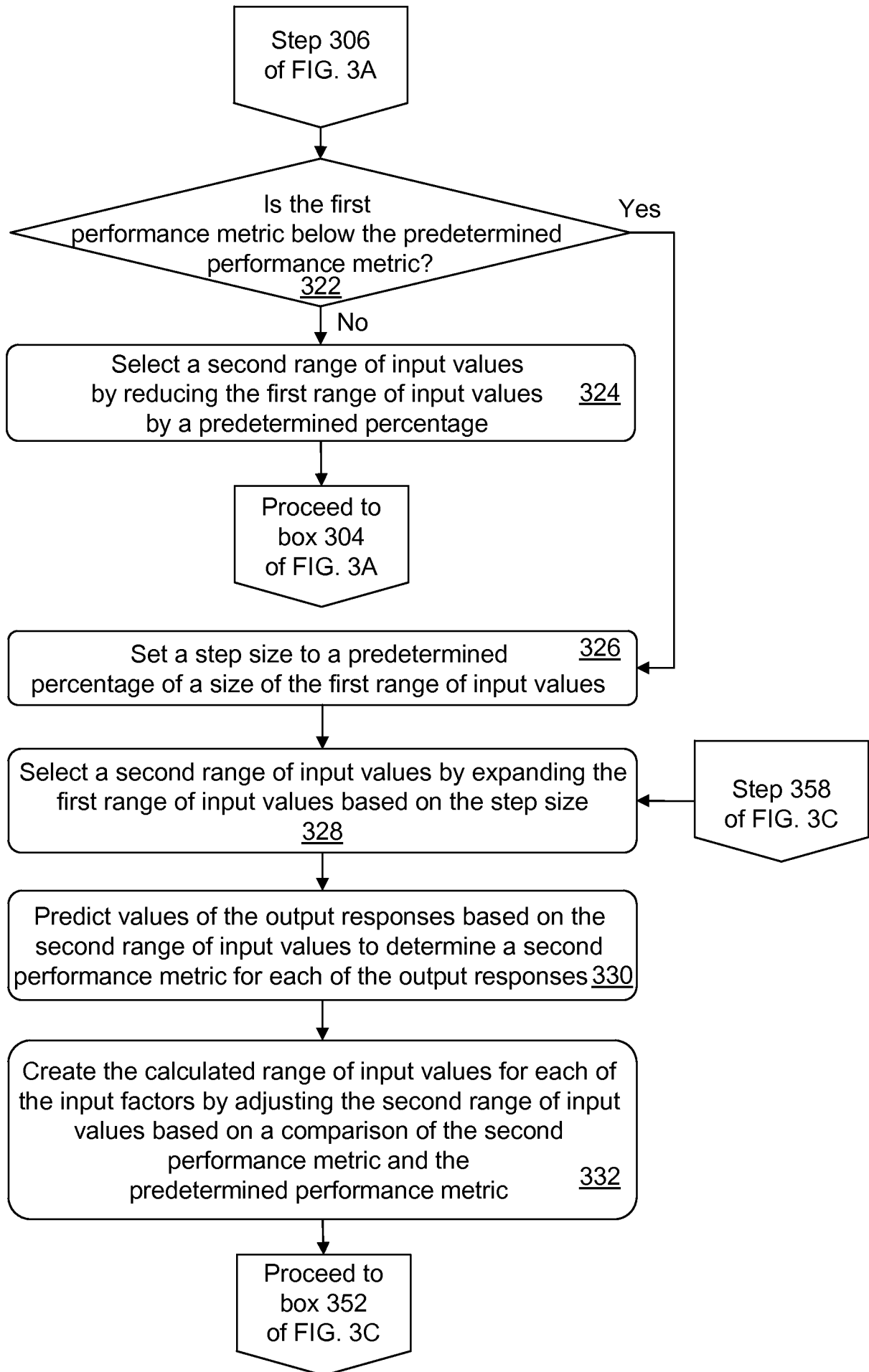


FIG. 3B

5/12

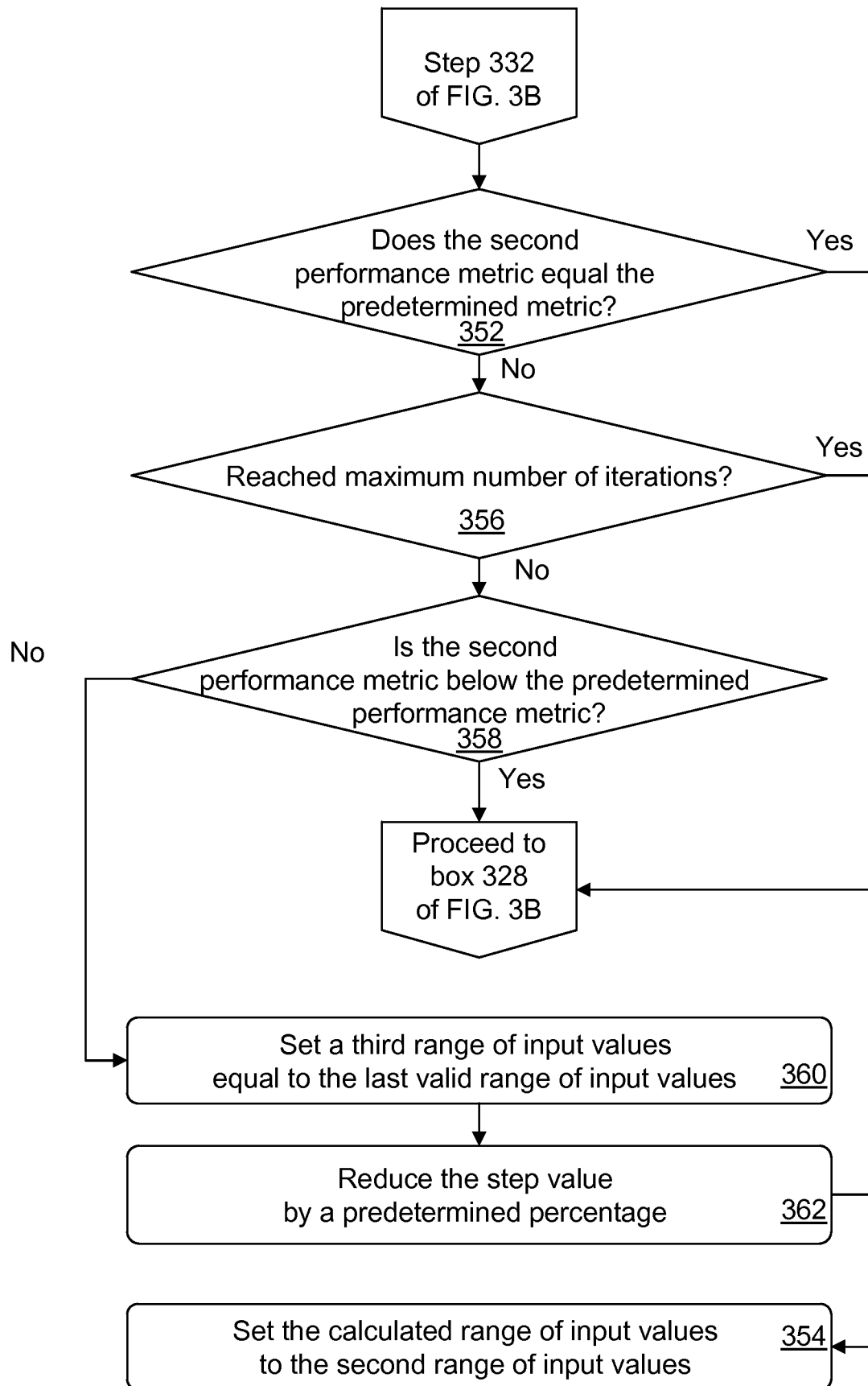
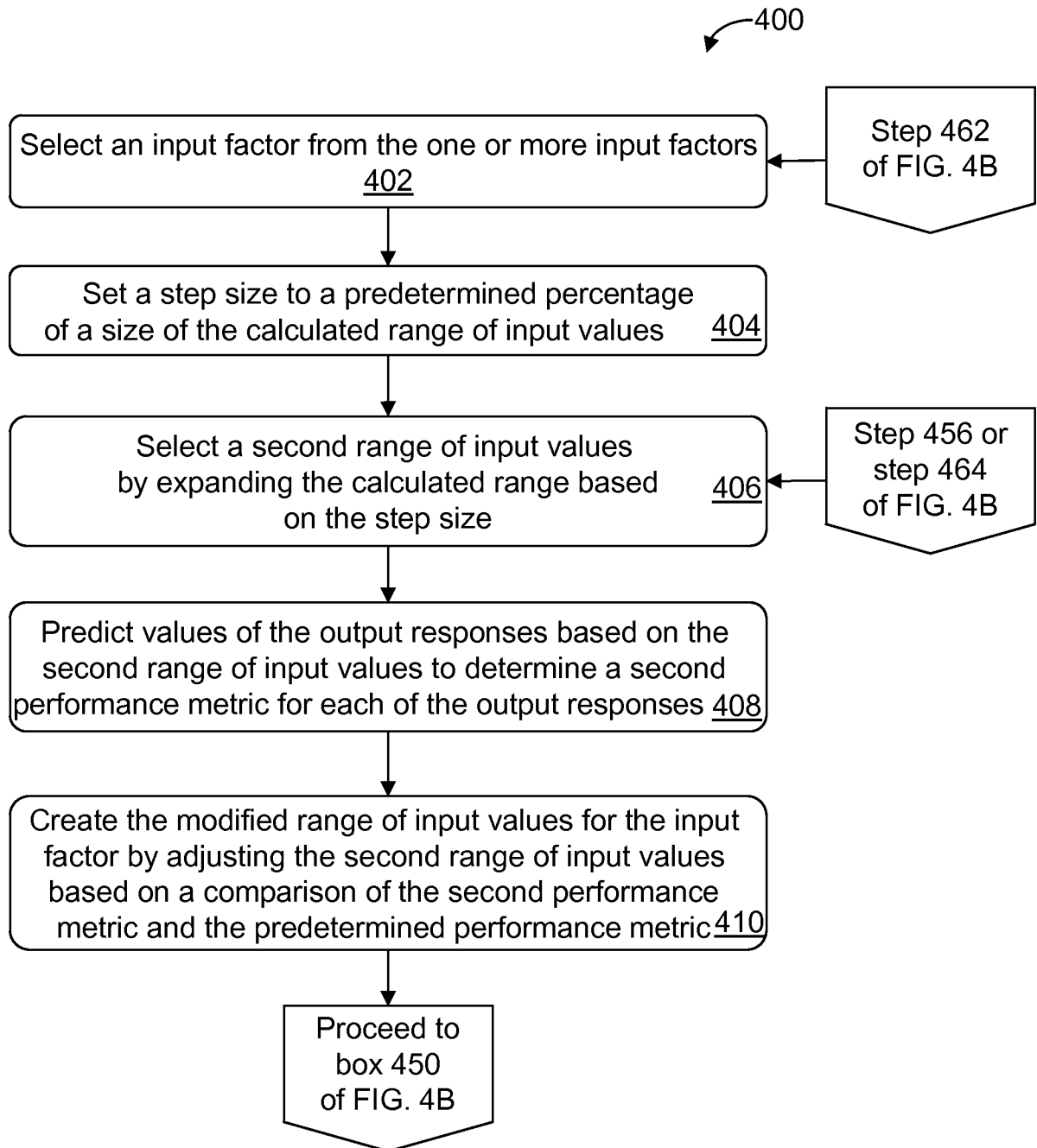


FIG. 3C



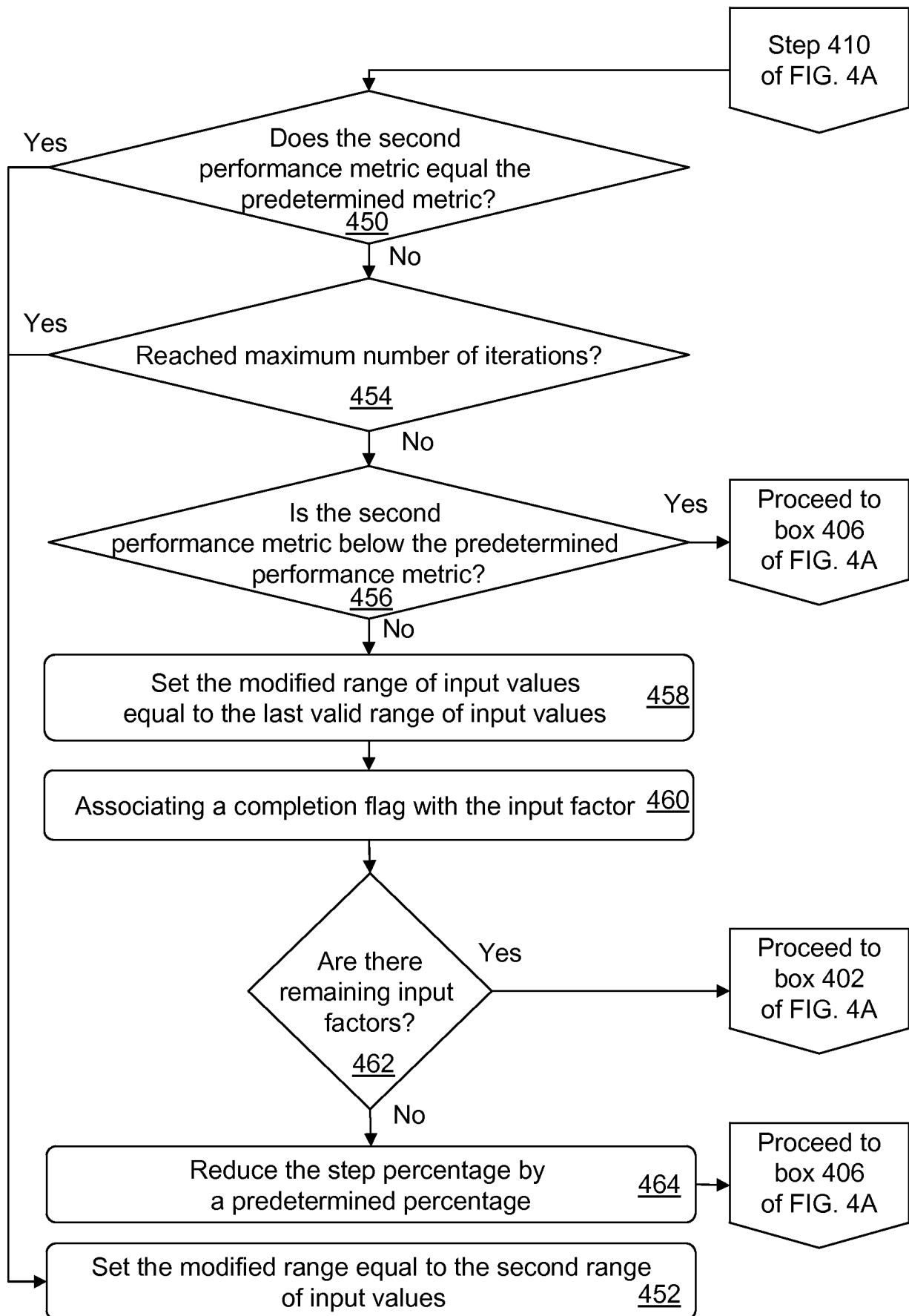


FIG. 4B

500

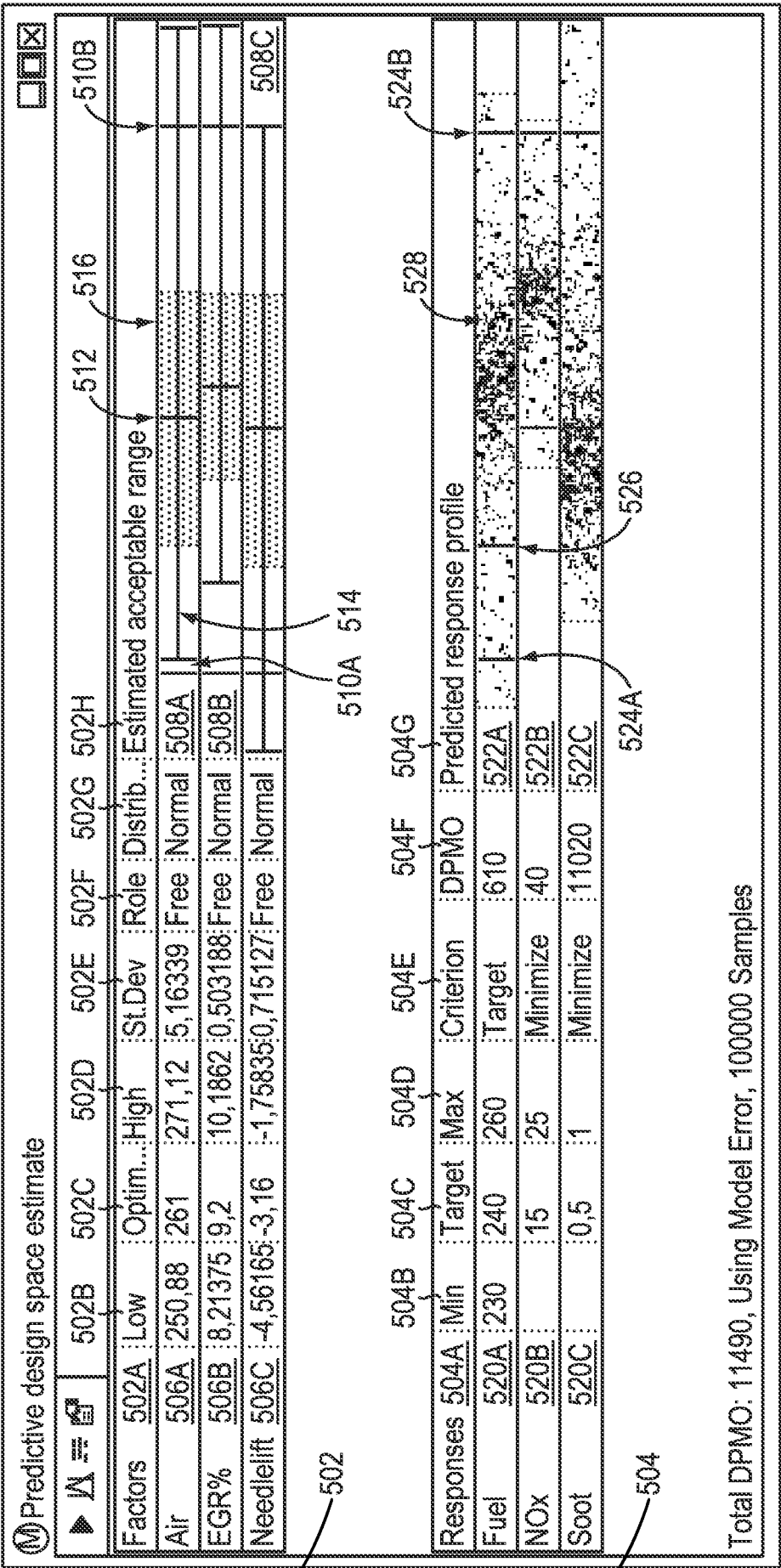


FIG. 5A

550

Optimizer

☐ ☐ ☐

Factor	R Value	Low Limit	High Limit	Sensitivity Range
1 Air	▼	240	284	5 %
2 EGR%	▼	6	12	5 %
3 Needlelift	▼	-5,78	0	5 %

552

Response	Criteria	Weight	Min	Target	Max
1 Fuel	Target ▼	1	230	240	260
2 NOx	Minimize ▼	1		15	25
3 Soot	Minimize ▼	1		0,5	1

554

Iteration: 74

Iteration slider:

☐ Absolute Limits

☒ Analyze Sensitivity

	1	2	3	4	5	6	7	8	9
Air	EGR%	Needlelift	Fuel	NOx	Soot	Iter	log(D)	DPMO	
1	243,667	10,5	-5,5873	244,475	14,1468	0,6611	7	-1,1498	4000
2	275,572	9,8691	-3,2801	248,707	17,3854	0,5241	22	-1,0774	0
3	240,091	10,9392	-5,7757	242,534	13,0666	0,7865	74	-0,8306	67400
4	283,649	8,2752	-4,3068	251,492	20,7931	0,2057	47	-0,6538	0
5	262	9,6	-2,89	243,575	17,9501	0,6505	0	-1,0571	0
6	284	9,2	-3,16	247,43	19,0189	0,3688	0	-1,0007	0
7	261	9,2	-3,16	243,949	18,7348	0,5393	0	-1,1975	0
8	261	9	-3,16	243,771	19,2418	0,5021	0	-1,1437	0

556

FIG. 5B

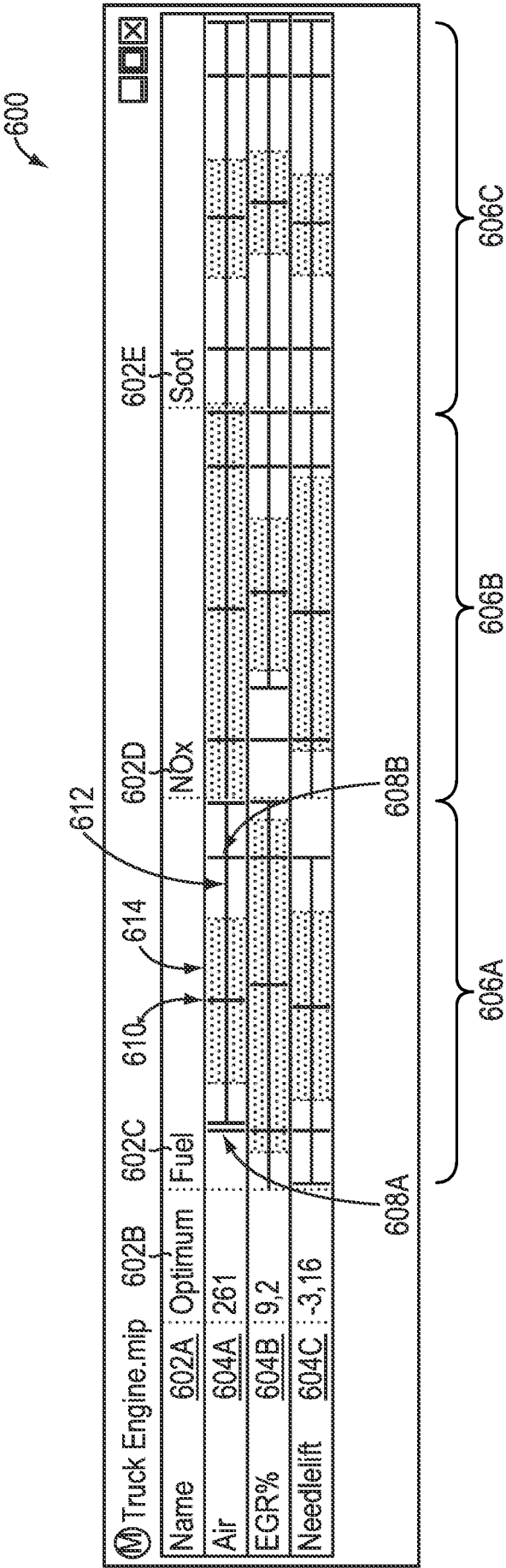


FIG. 5C

650

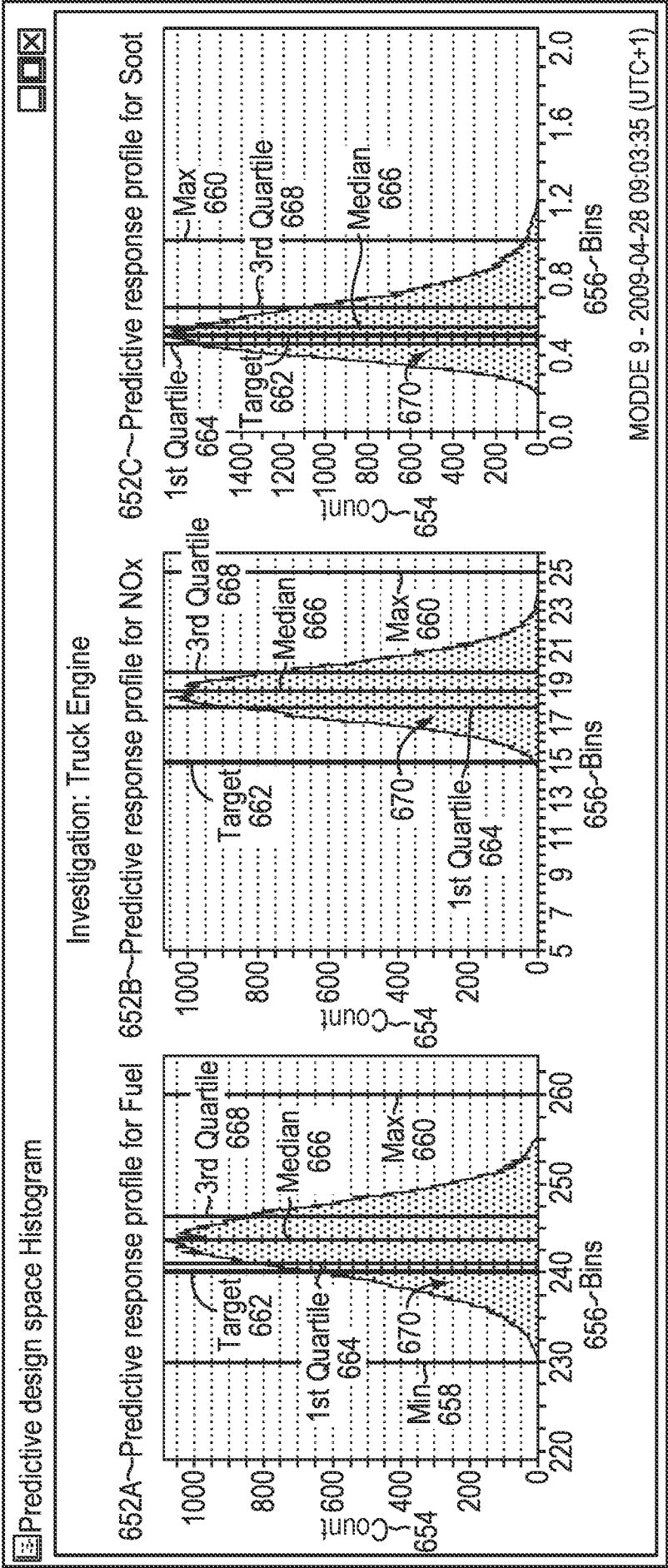


FIG. 5D

650

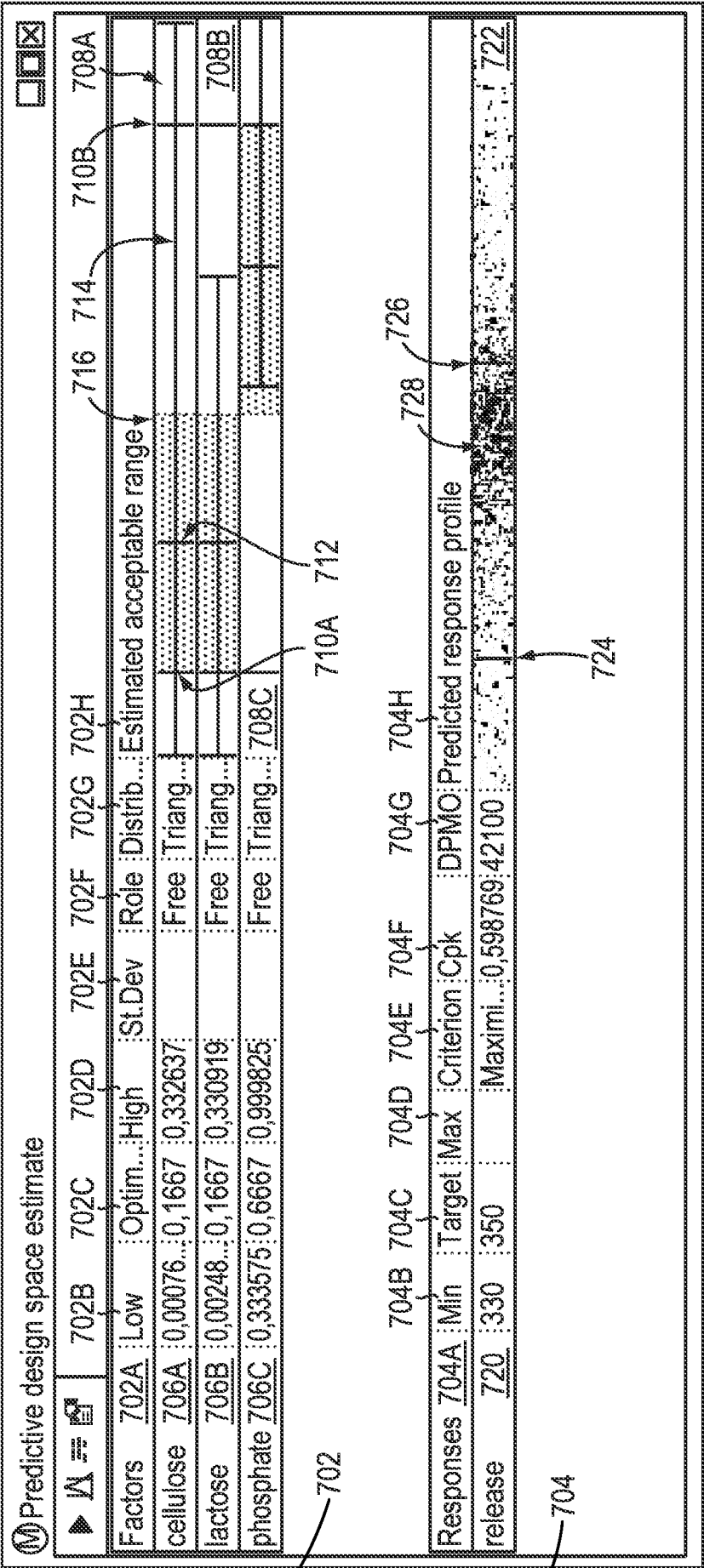


FIG. 5E