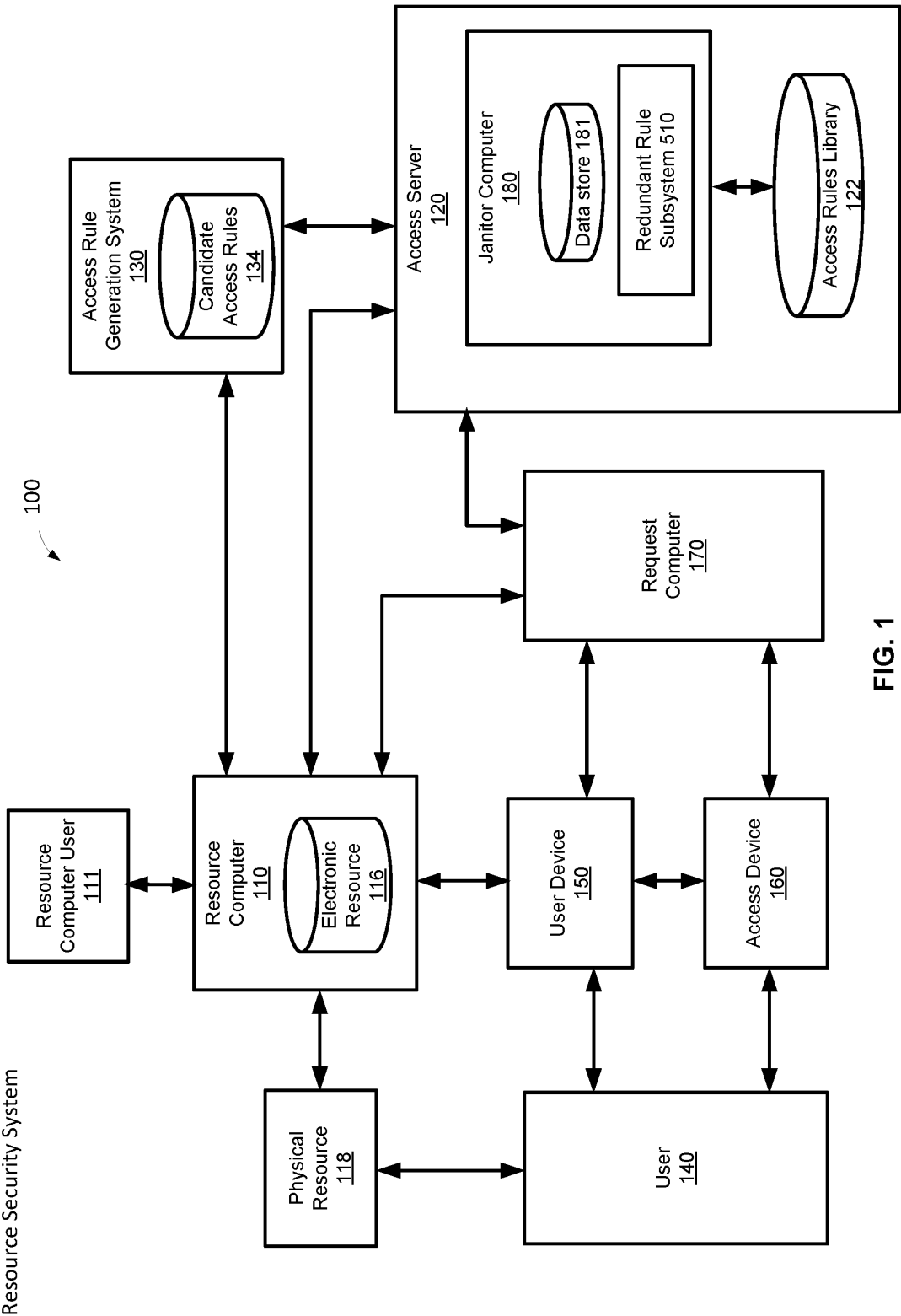




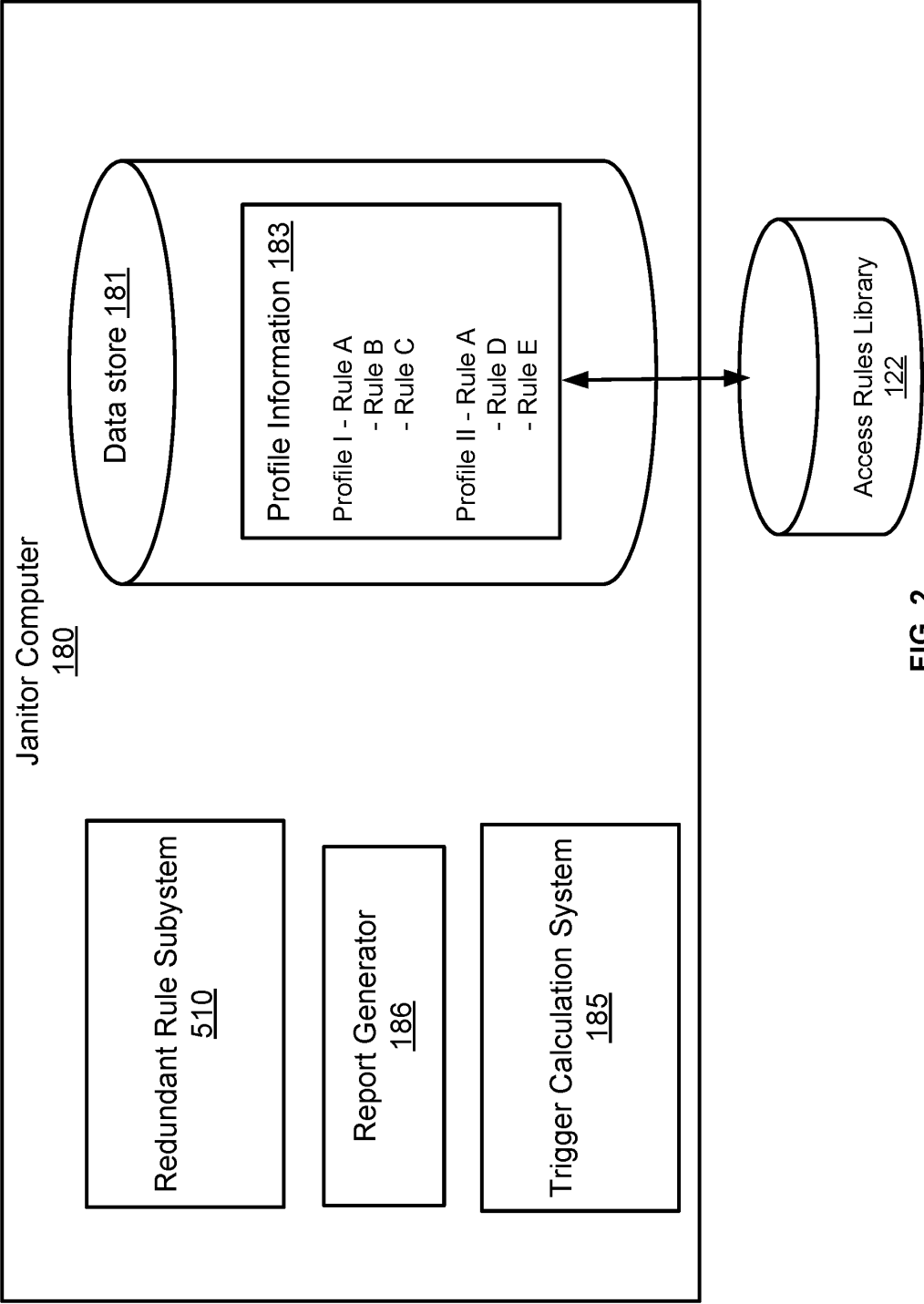


FIG. 2

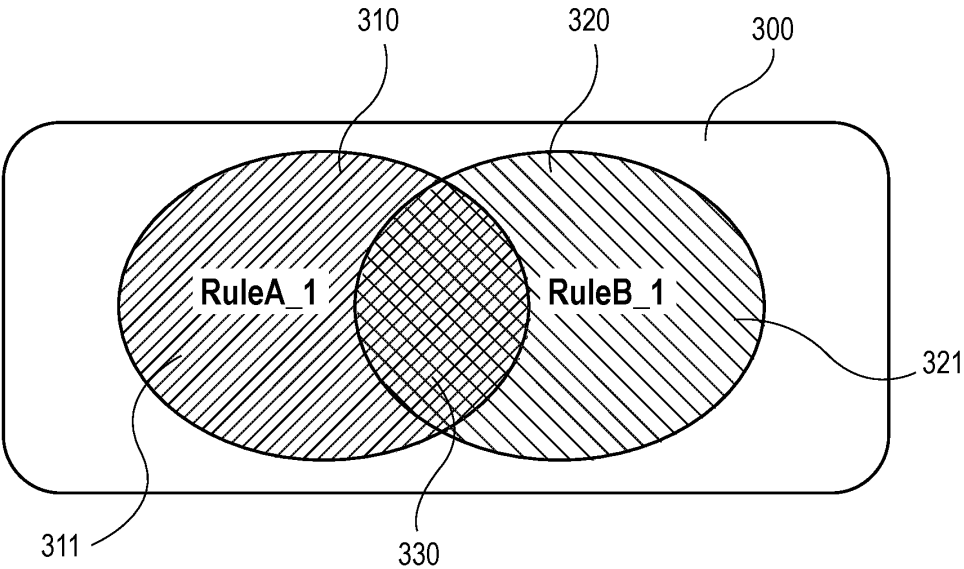


FIG. 3A

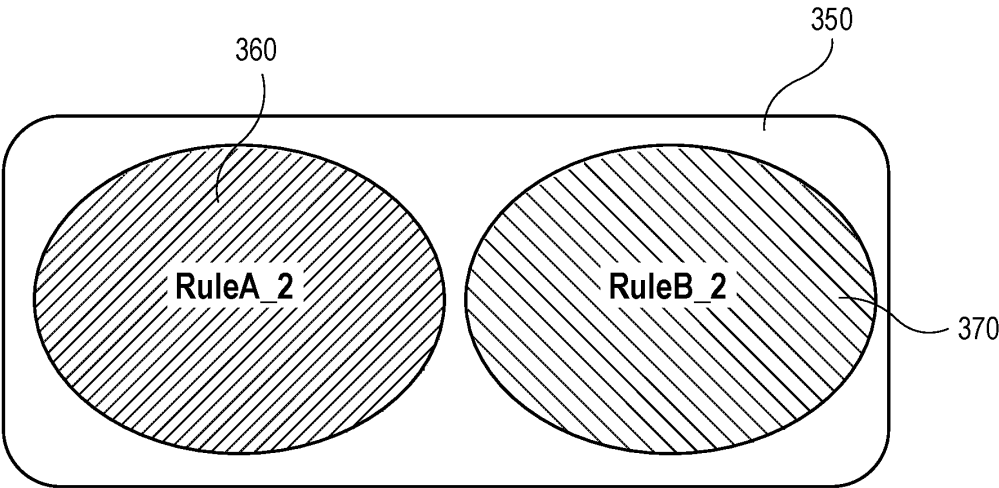


FIG. 3B

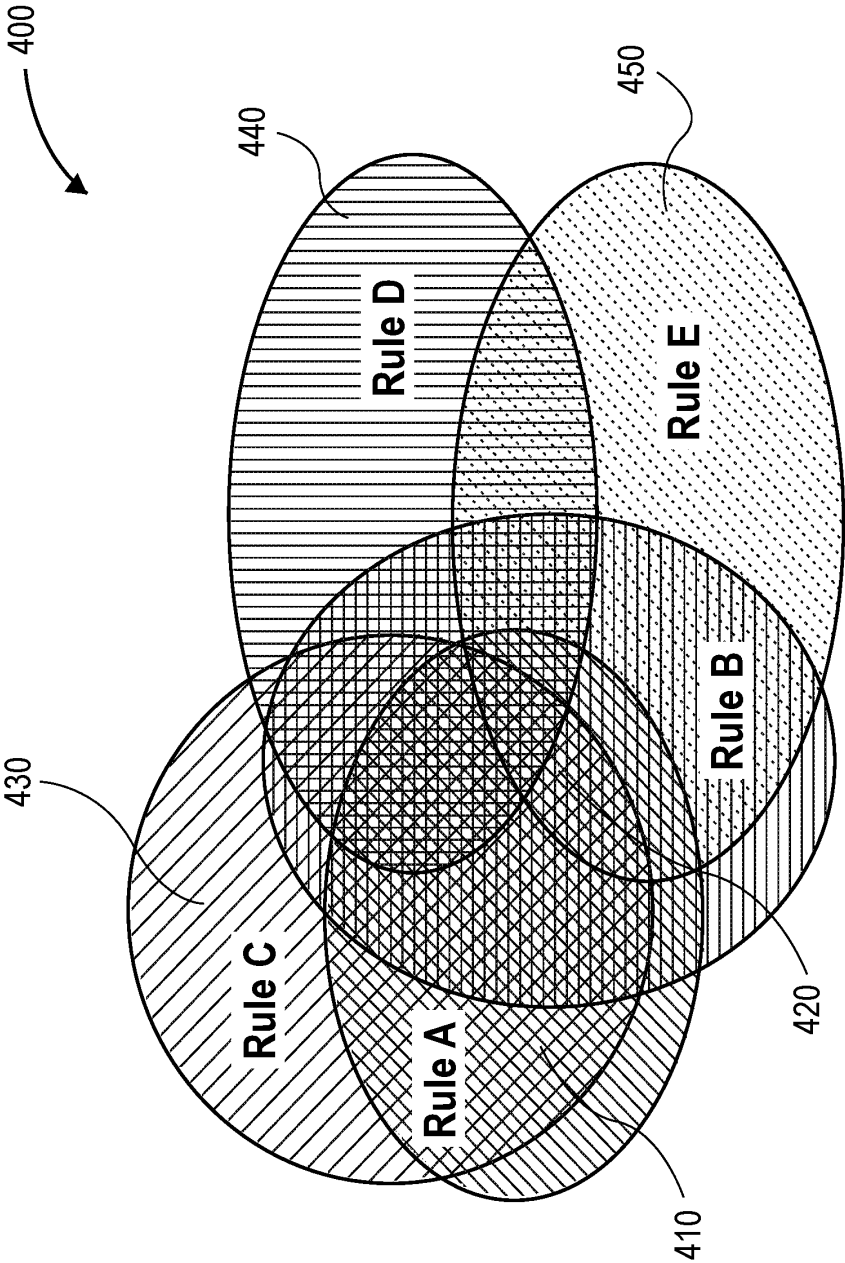


FIG. 4

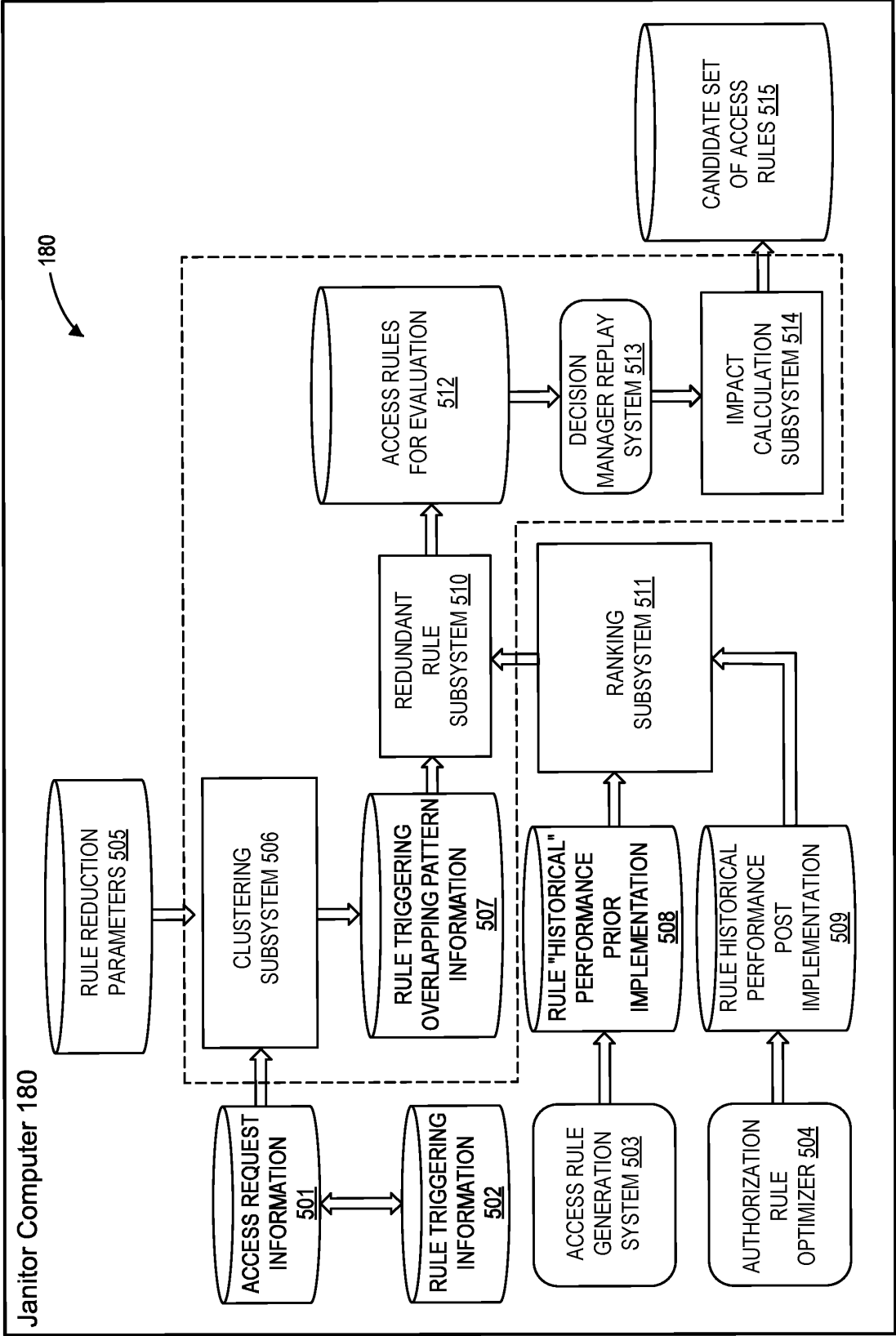


FIG. 5

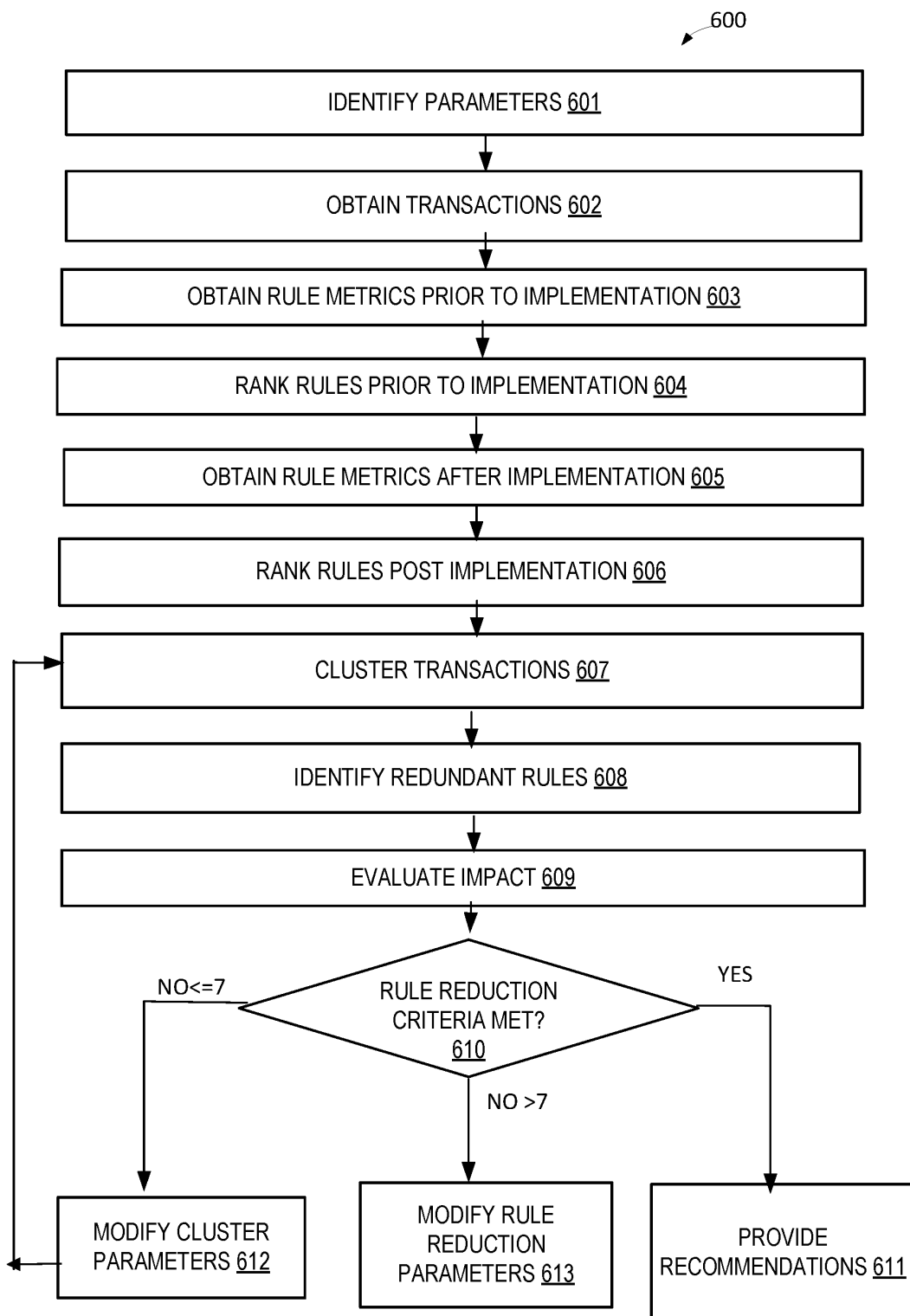


FIG. 6

700

request_id	R1_68	R1_52	...	R1_43	R3_1597	R3_1607	...	R3_1617	R3_616	R3_918
4344380774325000001334	0	1	...	0	0	0	...	0	0	0
4344382246865000001391	0	1	...	0	0	0	...	0	0	0
4344384248535000001351	0	0	...	0	0	0	...	1	0	0
4344389057385000001303	0	0	...	0	0	0	...	1	0	0
4344390212495000001364	0	0	...	0	0	0	...	0	0	0
4344390842145000001807	0	0	...	0	0	0	...	1	0	0
4344393253095000001361	0	0	...	0	1	0	...	0	0	0
4344393256065000001354	0	0	...	0	1	0	...	0	0	0
4344393977615000001305	0	0	...	0	0	0	...	1	0	0
4344396852505000001352	0	0	...	0	0	0	...	0	0	0
4344397737235000001377	0	0	...	0	1	0	...	0	0	0
4344398596665000001314	0	0	...	0	1	0	...	0	0	0
4344401720625000001393	0	0	...	0	0	0	...	0	0	0
4344402339005000001326	0	0	...	0	1	0	...	0	0	0
4344402532415000001353	0	1	...	0	0	0	...	0	0	0

FIG. 7

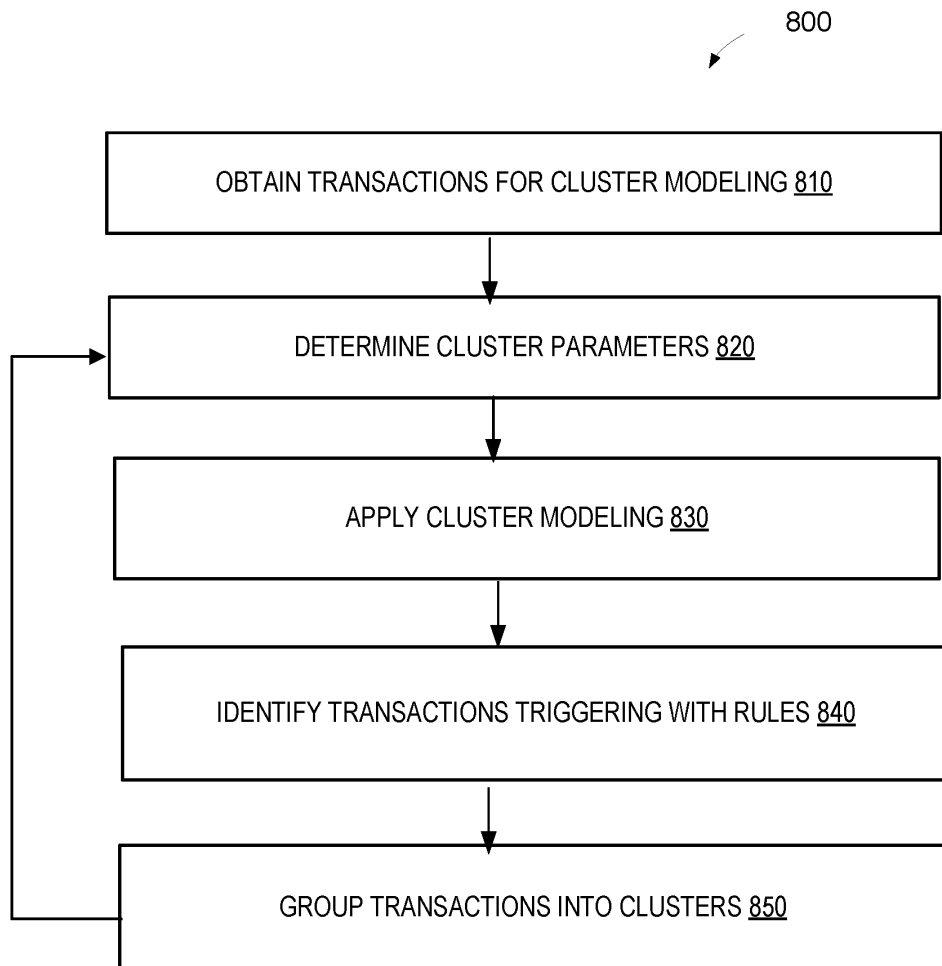


FIG. 8

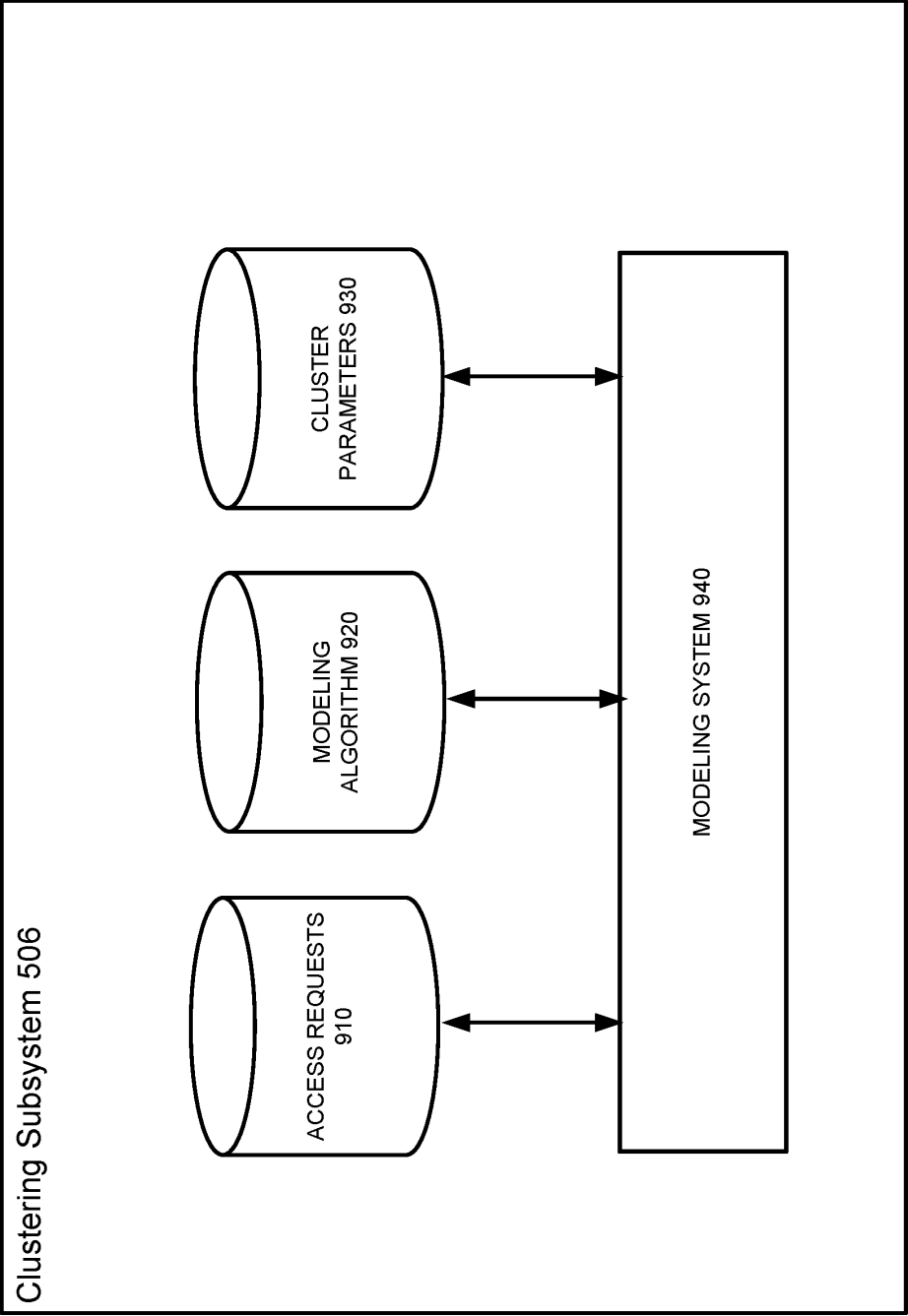
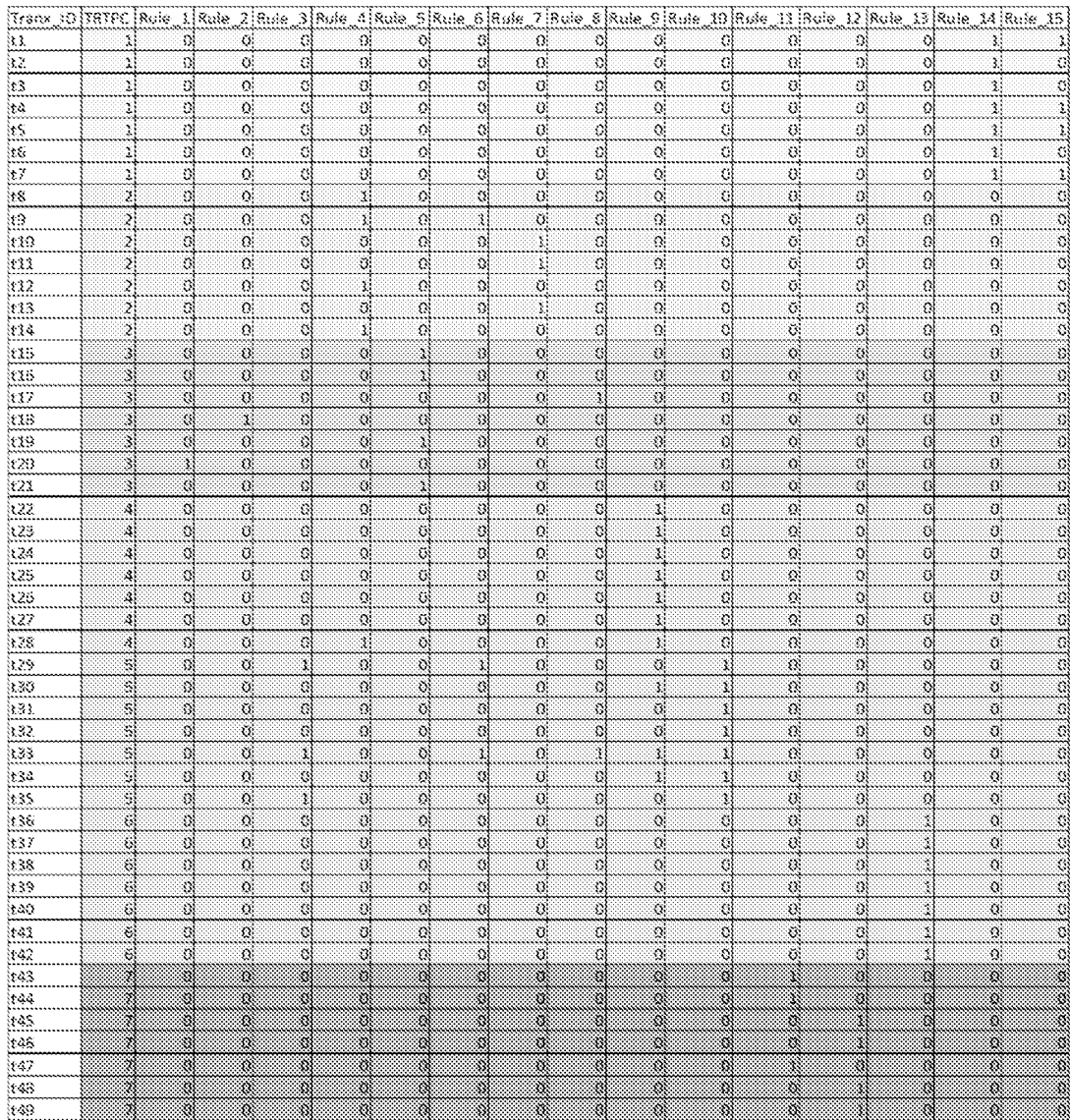


FIG. 9

1000



Trans ID	TRTFC	Rule 1	Rule 2	Rule 3	Rule 4	Rule 5	Rule 6	Rule 7	Rule 8	Rule 9	Rule 10	Rule 11	Rule 12	Rule 13	Rule 14	Rule 15
t1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
t2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
t3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
t4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
t5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
t6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
t7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
t8	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
t9	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
t10	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
t11	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
t12	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
t13	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
t14	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
t15	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
t16	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
t17	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
t18	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
t19	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
t20	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
t21	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
t22	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
t23	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
t24	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
t25	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
t26	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
t27	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
t28	4	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
t29	5	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0
t30	5	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
t31	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
t32	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
t33	5	0	0	1	0	0	1	0	1	1	1	0	0	0	0	0
t34	5	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
t35	5	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
t36	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
t37	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
t38	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
t39	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
t40	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
t41	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
t42	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
t43	7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
t44	7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
t45	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
t46	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
t47	7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
t48	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
t49	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

FIG. 10

1100

Prior Implementation				Rule Index	fraud count	legit count	already rejected count	Total
Chargeback	Testing Date	CF_1	CR_1					
Rejects				R1_48	FC_R1_48_1	LC_R1_48_1	RC_R1_48_1	TC_R1_48_1
Legitimate				R1_90	FC_R1_90_1	LC_R1_90_1	RC_R1_90_1	TC_R1_90_1
Total				R1_76	FC_R1_76_1	LC_R1_76_1	RC_R1_76_1	TC_R1_76_1
				R1_75	FC_R1_75_1	LC_R1_75_1	RC_R1_75_1	TC_R1_75_1
				R1_83	FC_R1_83_1	LC_R1_83_1	RC_R1_83_1	TC_R1_83_1
				R1_80	FC_R1_80_1	LC_R1_80_1	RC_R1_80_1	TC_R1_80_1
				R1_18	FC_R1_18_1	LC_R1_18_1	RC_R1_18_1	TC_R1_18_1
				R1_68	FC_R1_68_1	LC_R1_68_1	RC_R1_68_1	TC_R1_68_1
				R1_42	FC_R1_42_1	LC_R1_42_1	RC_R1_42_1	TC_R1_42_1
				R1_66	FC_R1_66_1	LC_R1_66_1	RC_R1_66_1	TC_R1_66_1
				R3_1107	FC_R3_1107_1	LC_R3_1107_1	RC_R3_1107_1	TC_R3_1107_1
				R3_1110	FC_R3_1110_1	LC_R3_1110_1	RC_R3_1110_1	TC_R3_1110_1
				R3_1115	FC_R3_1115_1	LC_R3_1115_1	RC_R3_1115_1	TC_R3_1115_1
				R3_1230	FC_R3_1230_1	LC_R3_1230_1	RC_R3_1230_1	TC_R3_1230_1
				R3_1335	FC_R3_1335_1	LC_R3_1335_1	RC_R3_1335_1	TC_R3_1335_1
				R3_1342	FC_R3_1342_1	LC_R3_1342_1	RC_R3_1342_1	TC_R3_1342_1
				R3_1581	FC_R3_1581_1	LC_R3_1581_1	RC_R3_1581_1	TC_R3_1581_1
				R3_1589	FC_R3_1589_1	LC_R3_1589_1	RC_R3_1589_1	TC_R3_1589_1
				R3_1597	FC_R3_1597_1	LC_R3_1597_1	RC_R3_1597_1	TC_R3_1597_1
				R3_1607	FC_R3_1607_1	LC_R3_1607_1	RC_R3_1607_1	TC_R3_1607_1

FIG. 11

1200
↙

Rule Index	Trigger		Detect Rate	Precision	Overlap	
	Percent	Reject Rate			Reject Rate	
R1_48	0.0120%	0.0038%	100.0000%		99.8915%	
R1_90	0.0005%	0.0534%	77.7778%		51.3514%	
R1_76	0.0022%	0.0610%	51.6129%		81.3253%	
R1_75	0.0053%	0.5451%	49.3103%		28.9216%	
R1_83	0.0414%	3.8994%	45.2055%		28.8141%	
R1_80	0.0439%	3.9756%	44.7639%		30.8605%	
R1_18	0.2671%	23.7507%	38.8951%		21.8270%	
R1_68	0.1020%	8.7517%	38.0195%		22.8243%	
R1_42	0.0112%	0.3469%	35.4086%		70.1510%	
R1_66	0.0044%	0.3774%	34.2561%		13.9881%	
R3_1107	0.0023%	0.2546%	26.3473%		9.2391%	
R3_1110	0.0161%	1.2558%	23.0606%		26.3117%	
R3_1115	0.0053%	0.6424%	55.5000%		52.7187%	
R3_1230	0.0011%	0.1389%	48.0000%		41.8605%	
R3_1335	0.0017%	0.0868%	22.7273%		50.0000%	
R3_1342	0.0187%	1.5972%	27.1654%		31.3977%	
R3_1581	0.0093%	0.7350%	25.0493%		31.2076%	
R3_1589	0.0044%	0.5150%	45.8763%		44.8864%	
R3_1597	0.0622%	1.1285%	28.9747%		86.3184%	
R3_1607	0.0162%	0.1505%	34.6667%		94.1634%	

FIG. 12

1300

Post Implementation Testing Data				Rule Index	Total	Trigger Percent	Detect Rate	Precision	Overlap Reject Rate
Chargeback	CF 2	Rejects	CR 2						
Legitimate	CL 2								
Total	CT 2								

R1_18	TC_R1_48_2	0.0335%	0.0826%	7.1038%	86.7391%
R1_203	TC_R1_90_2	0.0544%	0.0191%	74.9981%	99.8216%
R1_42	TC_R1_76_2	0.0081%	0.0127%	15.3845%	96.0843%
R1_43	TC_R1_75_2	0.0040%	0.0318%	62.4992%	95.1807%
R1_48	TC_R1_83_2	0.0139%	0.0000%	0.0000%	93.9024%
R1_52	TC_R1_80_2	0.3317%	0.0890%	11.1111%	99.0781%
R1_66	TC_R1_28_2	0.0005%	0.0000%	0.0000%	55.0000%
R1_68	TC_R1_68_2	0.0002%	0.0000%	0.0000%	77.7778%
R1_69	TC_R1_42_2	0.0001%	0.0000%	0.0000%	100.0000%
R1_72	TC_R1_66_2	0.0008%	0.0000%	0.0000%	90.6250%
R3_1107	TC_R3_1107_2	0.0032%	0.0254%	99.9975%	96.9466%
R3_1110	TC_R3_1110_2	0.0118%	0.2605%	99.9998%	91.5811%
R3_1115	TC_R3_1115_2	0.0009%	0.0000%	0.0000%	100.0000%
R3_1230	TC_R3_1230_2	0.0000%	0.0000%	0.0000%	100.0000%
R3_1335	TC_R3_1335_2	0.0012%	0.1334%	99.9995%	57.1429%
R3_1342	TC_R3_1342_2	0.0087%	0.7243%	99.9999%	68.0672%
R3_1581	TC_R3_1581_2	0.0220%	1.7854%	78.9326%	60.7930%
R3_1589	TC_R3_1589_2	0.0003%	0.0064%	99.9900%	92.3077%
R3_1597	TC_R3_1597_2	0.0285%	1.8108%	77.4456%	68.7075%
R3_1607	TC_R3_1607_2	0.0102%	0.4320%	79.0697%	79.5238%

FIG. 13

1400

Rule Index	Trigger Percent	Defect Rate	Precision	Overlap Reject Rate	Prior Performance Rank	Weighted Opinion On Rule Performance Metric
R1_48	0.0120%	0.0038%	100.0000%	99.8915%	1	3.0003
R1_50	0.0005%	0.0534%	77.778%	51.3514%	2	2.3544
R3_643	0.1153%	R3_1597%	59.388%	58.033%	3	2.0463
R3_402	0.0011%	0.2315%	66.6667%	31.8182%	4	2.0046
R3_440	0.0027%	0.5208%	65.2174%	54.9657%	5	1.9670
R3_264	0.0257%	5.2604%	61.2171%	26.9833%	6	1.9419
R3_665	0.0045%	0.3299%	64.049%	75.070%	7	1.9280
R3_613	0.0311%	5.2951%	57.7287%	35.6998%	8	1.8381
R3_637	0.0028%	1.567%	58.8621%	40.8797%	9	1.7971
R3_630	0.0977%	11.5046%	50.5724%	49.152%	10	1.7485
R3_1947	0.0002%	0.0231%	57.1429%	63.1579%	11	1.7148
R3_1115	0.0053%	0.6424%	55.5000%	52.7187%	12	1.6779
R3_917	0.0026%	0.5566%	54.8571%	35.4589%	13	1.6569
R1_18	0.2671%	R3_7507%	38.8951%	21.8270%	14	1.6448
R3_659	0.0320%	1.0185%	53.9877%	87.1197%	15	1.6405
R3_628	0.0301%	4.3924%	51.3679%	37.9412%	16	1.6298
R3_257	0.0012%	0.2951%	53.642%	0.000%	17	1.6164
R3_250	0.0012%	0.7315%	52.6316%	19.1489%	18	1.5836
R3_252	0.0010%	0.1620%	51.8519%	33.3333%	19	1.5588
R1_76	0.0027%	0.0610%	51.6129%	81.3253%	20	1.5496
R3_249	0.0004%	1.1111%	50.6596%	25.2465%	21	1.5421
R1_75	0.0053%	0.5451%	49.3103%	28.9216%	22	1.4903
R3_414	0.0077%	0.4572%	47.8788%	71.772%	23	1.4456
R3_1230	0.0011%	0.1389%	48.0000%	41.8605%	24	1.4428
R1_83	0.0414%	3.8994%	45.2655%	28.8141%	25	1.4346
R1_80	0.0439%	3.9756%	44.763%	30.8605%	26	1.4229
R3_1830	0.0016%	0.0958%	46.8750%	74.4000%	27	1.4080
R3_918	0.0028%	0.4340%	46.0123%	27.2312%	28	1.3891
R3_1589	0.0044%	0.5150%	45.8763%	44.884%	29	1.3866
R3_905	0.0001%	0.0231%	44.4444%	10.0000%	30	1.3328

FIG. 14

1500

Prior Implementation Performance Level					
Rule Index	Trigger Percent	Trigger Percent Nominal Level	Rule Index	Detect Rate	Detect Rate Nominal Level
R3_253	0.0001%	LOW	R1_48	0.0038%	LOW
R3_905	0.0001%	LOW	R3_253	0.0058%	LOW
R3_181	0.0002%	LOW	R1_203	0.0076%	LOW
R1_76	0.0022%	LOW	R3_1914	0.0926%	LOW
R3_450	0.0023%	LOW	R3_450	0.0926%	LOW
R3_1107	0.0023%	LOW	R3_1670	0.1273%	LOW
R3_1873	0.0026%	LOW	R3_616	0.1331%	LOW
R3_917	0.0026%	Moderate	R3_393	0.1331%	Moderate
R3_449	0.0027%	Moderate	R3_1230	0.1389%	Moderate
R1_42	0.0112%	Moderate	R3_1589	0.5150%	Moderate
R1_48	0.0120%	Moderate	R3_449	0.5208%	Moderate
R3_885	0.0148%	Moderate	R1_75	0.5451%	Moderate
R3_1717	0.0157%	Moderate	R3_917	0.5556%	Moderate
R3_1110	0.0161%	Moderate	R3_1115	0.6424%	Moderate
R3_1607	0.0162%	High	R3_1581	0.7350%	High
R3_1342	0.0187%	High	R1_69	0.9529%	High
R3_643	0.1153%	High	R1_9	11.0730%	High
R1_52	0.1320%	High	R3_630	11.5046%	High
R1_18	0.2671%	High	R3_643	13.1597%	High
R1_9	0.2905%	High	R1_18	23.7507%	High

FIG. 15

1600

Prior Implementation Performance Level					
Rule Index	Precision	Precision Nominal Level	Rule Index	Overlap Reject Rate	Overlap Reject Rate Nominal Level
R3_450	10.1266%	LOW	R3_257	0.0000%	LOW
R3_393	14.1104%	LOW	R3_181	0.0000%	LOW
R3_1670	14.2857%	LOW	R3_904	4.4444%	LOW
R3_885	28.5714%	LOW	R3_635	28.5714%	LOW
R3_1597	28.9747%	LOW	R1_83	28.8141%	LOW
R1_72	29.5082%	LOW	R1_75	28.9216%	LOW
R1_9	30.6467%	LOW	R1_80	30.8605%	LOW
R3_612	30.7295%	Moderate	R3_1581	31.2076%	Moderate
R3_616	32.3944%	Moderate	R3_1342	31.3977%	Moderate
R1_83	45.2055%	Moderate	R1_90	51.3514%	Moderate
R3_1589	45.8763%	Moderate	R3_1115	52.7187%	Moderate
R3_918	46.0123%	Moderate	R1_9	57.4589%	Moderate
R3_1830	46.8750%	Moderate	R3_643	58.0338%	Moderate
R3_414	47.8788%	Moderate	R3_253	63.5000%	Moderate
R3_1230	48.0000%	High	R3_1914	62.6459%	High
R1_75	49.3103%	High	R3_1847	63.1579%	High
R3_449	65.2174%	High	R1_203	98.4743%	High
R3_402	66.6667%	High	R3_885	99.4037%	High
R1_90	77.7778%	High	R3_1617	99.8075%	High
R1_48	100.0000%	High	R1_48	99.8915%	High

FIG. 16

Rule Index	Trigger Percent	Detect Rate	Precision	Overlap Reject Rate	Post Performance Rank	Weighted Opinion On Rule Performance Metric
R3_1617	0.2718%	3.5886%	98.2769%	94.8661%	1	3.0735
R3_1342	0.0087%	0.7243%	99.9999%	98.0672%	2	3.0146
R3_630	0.0139%	0.3113%	98.9998%	91.4485%	3	3.0064
R3_666	0.0155%	0.2986%	99.9998%	92.6563%	4	3.0062
R3_1110	0.0118%	0.2605%	99.9998%	91.5811%	5	3.0054
R3_1670	0.0655%	0.2160%	99.9997%	98.7412%	6	3.0053
R3_1335	0.0012%	0.1334%	99.9995%	97.1429%	7	3.0027
R3_659	0.0194%	0.1144%	99.9994%	97.7444%	8	3.0025
R3_637	0.0003%	0.0635%	99.9990%	98.5714%	9	3.0012
R3_264	0.0003%	0.0318%	99.9980%	98.3333%	10	3.0006
R3_1107	0.0032%	0.0254%	99.9975%	96.9465%	11	3.0005
R3_1247	0.0001%	0.0191%	99.9967%	90.0000%	12	3.0003
R3_885	0.0120%	0.0127%	99.9950%	99.5951%	13	3.0003
R3_1830	0.0080%	0.0127%	99.9950%	99.3902%	14	3.0002
R3_1589	0.0003%	0.0064%	99.9900%	92.3077%	15	2.9998
R3_402	0.0003%	0.0064%	99.9900%	91.6667%	16	2.9998
R3_1914	0.0001%	0.0064%	99.9900%	80.0000%	17	2.9998
R3_646	0.0124%	0.4384%	95.8332%	85.9375%	18	2.8839
R3_658	0.0074%	0.0826%	92.8565%	95.4748%	19	2.7875
R3_1717	0.0162%	0.1080%	89.4737%	97.1514%	20	2.6866
R3_613	0.0051%	0.0445%	87.4989%	96.1722%	21	2.6259
R3_643	0.0779%	0.2160%	87.1793%	98.7850%	22	2.6208
R3_1581	0.0220%	1.7854%	78.9326%	60.7930%	23	2.4040
R3_1607	0.0102%	0.4370%	79.0697%	79.5238%	24	2.3879
R3_1597	0.0285%	1.8108%	77.4456%	68.7075%	25	2.3600
R3_628	0.0071%	0.4575%	77.4193%	68.3673%	26	2.3318
R1_203	0.0644%	0.0191%	74.9981%	99.8216%	27	2.2511
R3_182	0.0002%	0.0318%	71.4276%	0.0000%	28	2.1435
R3_450	0.0060%	0.9403%	66.0714%	10.0402%	29	2.0010
R1_43	0.0040%	0.0318%	62.4997%	95.1807%	30	1.8757

1700

FIG. 17

1800

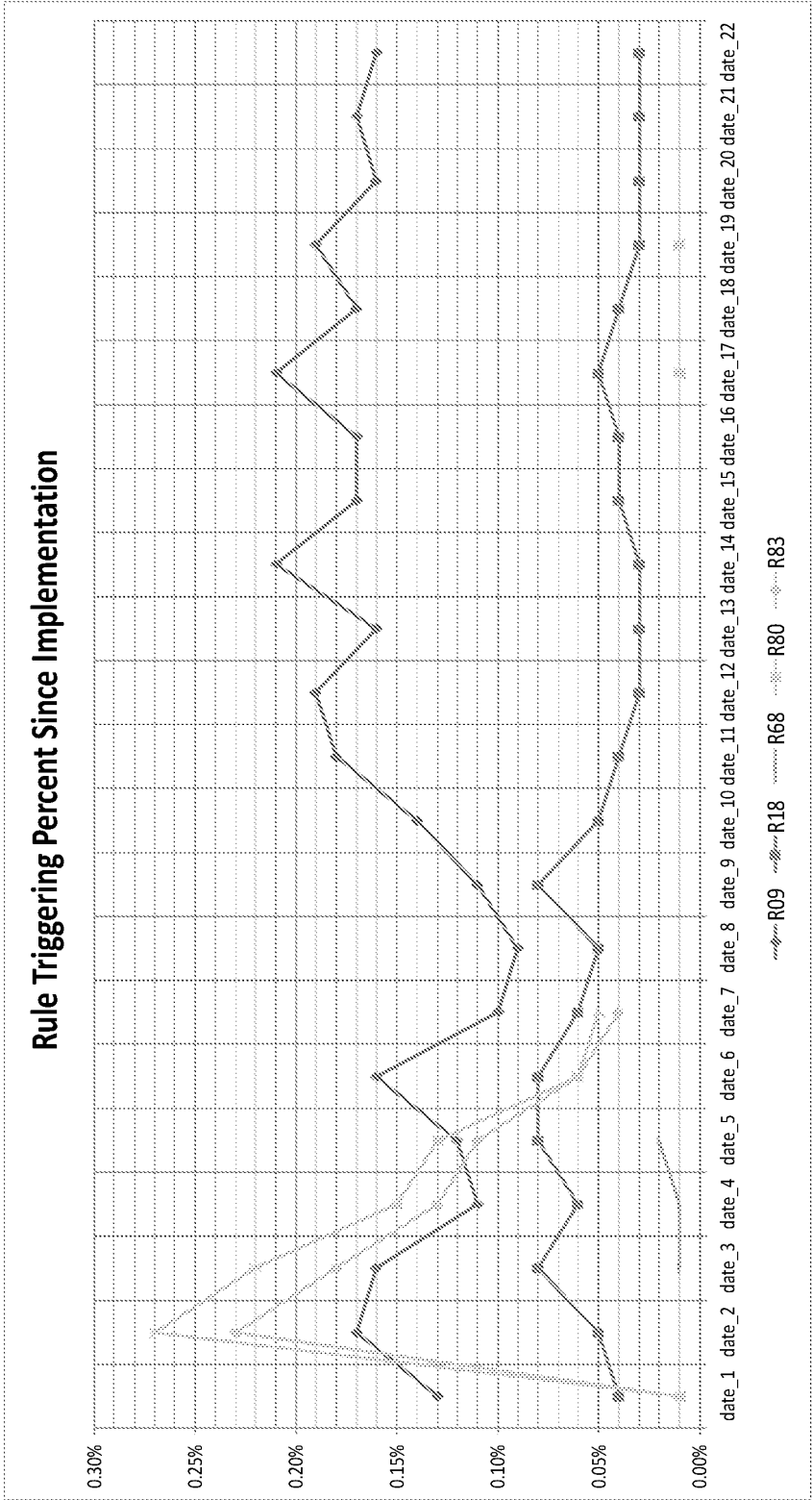


FIG. 18

1900

Post Implementation Performance Level					
Rule Index	Trigger Percent	Trigger Percent Nominal Level	Rule Index	Defect Rate	Defect Rate Nominal Level
R3_257	0.0000%	LOW	R1_48	0.0000%	LOW
R3_634	0.0000%	LOW	R3_414	0.0000%	LOW
R3_918	0.0000%	LOW	R3_393	0.0000%	LOW
R3_181	0.0002%	LOW	R3_635	0.0000%	LOW
R3_252	0.0002%	LOW	R1_75	0.0000%	LOW
R3_616	0.0002%	LOW	R1_76	0.0000%	LOW
R1_68	0.0002%	LOW	R1_84	0.0000%	LOW
R3_250	0.0003%	Moderate	R3_1230	0.0000%	Moderate
R3_264	0.0003%	Moderate	R3_910	0.0000%	Moderate
R1_43	0.0040%	Moderate	R1_203	0.0191%	Moderate
R3_613	0.0051%	Moderate	R3_1107	0.0254%	Moderate
R3_450	0.0060%	Moderate	R3_264	0.0318%	Moderate
R3_628	0.0071%	Moderate	R3_182	0.0318%	Moderate
R3_658	0.0074%	Moderate	R1_43	0.0318%	Moderate
R3_1597	0.0285%	High	R3_630	0.3113%	High
R1_18	0.0335%	High	R3_1607	0.4320%	High
R1_203	0.0544%	High	R3_646	0.4384%	High
R3_1670	0.0655%	High	R3_628	0.4575%	High
R3_643	0.0779%	High	R3_1342	0.7243%	High
R3_1617	0.2718%	High	R3_1597	1.8108%	High
R1_52	0.3317%	High	R3_1617	3.5898%	High

FIG. 19

Post Implementation Performance Level				
Rule Index	Precision	Precision Nominal Level	Rule Index	Overlap Reject Rate Nominal Level
R1_48	0.0000%	LOW	R3_182	0.0000% LOW
R3_414	0.0000%	LOW	R3_904	0.0000% LOW
R3_393	0.0000%	LOW	R3_905	0.0000% LOW
R3_635	0.0000%	LOW	R3_616	75.0000% LOW
R1_75	0.0000%	LOW	R1_68	77.7778% LOW
R1_76	0.0000%	LOW	R3_449	78.9474% LOW
R1_84	0.0000%	LOW	R3_1607	79.5238% LOW
R3_1230	0.0000%	Moderate	R3_1914	80.0000% Moderate
R3_910	0.0000%	Moderate	R3_646	85.9375% Moderate
R3_182	71.4276%	Moderate	R3_1717	97.1514% Moderate
R1_203	74.9981%	Moderate	R3_1873	97.4359% Moderate
R3_628	77.4193%	Moderate	R3_659	97.7444% Moderate
R3_1597	77.4456%	Moderate	R3_612	98.7397% Moderate
R3_1581	78.9326%	Moderate	R3_1670	98.7412% Moderate
R3_264	99.9980%	High	R3_253	100.0000% High
R3_637	99.9990%	High	R1_69	100.0000% High
R3_659	99.9994%	High	R3_635	100.0000% High
R3_1335	99.9995%	High	R1_75	100.0000% High
R3_1670	99.9997%	High	R1_76	100.0000% High
R3_630	99.9998%	High	R3_910	100.0000% High
R3_1342	99.9999%	High	R1_90	100.0000% High

2000

FIG. 20

2100

	Rule Trigger Total	TRTPC					
		TRTPC1	TRTPC2	TRTPC3	TRTPC4	TRTPC5	TRTPC6
R1_18	TC_R1_18	C_R1_18_1	C_R1_18_2	C_R1_18_3	C_R1_18_4	C_R1_18_5	C_R1_18_6
R1_203	TC_R1_203	C_R1_203_1	C_R1_203_2	C_R1_203_3	C_R1_203_4	C_R1_203_5	C_R1_203_6
R1_42	TC_R1_42	C_R1_42_1	C_R1_42_2	C_R1_42_3	C_R1_42_4	C_R1_42_5	C_R1_42_6
R1_43	TC_R1_43	C_R1_43_1	C_R1_43_2	C_R1_43_3	C_R1_43_4	C_R1_43_5	C_R1_43_6
R1_48	TC_R1_48	C_R1_48_1	C_R1_48_2	C_R1_48_3	C_R1_48_4	C_R1_48_5	C_R1_48_6
R1_52	TC_R1_52	C_R1_52_1	C_R1_52_2	C_R1_52_3	C_R1_52_4	C_R1_52_5	C_R1_52_6
R1_80	TC_R1_80	C_R1_80_1	C_R1_80_2	C_R1_80_3	C_R1_80_4	C_R1_80_5	C_R1_80_6
R1_83	TC_R1_83	C_R1_83_1	C_R1_83_2	C_R1_83_3	C_R1_83_4	C_R1_83_5	C_R1_83_6
R1_9	TC_R1_9	C_R1_9_1	C_R1_9_2	C_R1_9_3	C_R1_9_4	C_R1_9_5	C_R1_9_6
R1_90	TC_R1_90	C_R1_90_1	C_R1_90_2	C_R1_90_3	C_R1_90_4	C_R1_90_5	C_R1_90_6
R3_1110	TC_R3_1110	C_R3_1110_1	C_R3_1110_2	C_R3_1110_3	C_R3_1110_4	C_R3_1110_5	C_R3_1110_6
R3_1115	TC_R3_1115	C_R3_1115_1	C_R3_1115_2	C_R3_1115_3	C_R3_1115_4	C_R3_1115_5	C_R3_1115_6
R3_1342	TC_R3_1342	C_R3_1342_1	C_R3_1342_2	C_R3_1342_3	C_R3_1342_4	C_R3_1342_5	C_R3_1342_6
R3_1581	TC_R3_1581	C_R3_1581_1	C_R3_1581_2	C_R3_1581_3	C_R3_1581_4	C_R3_1581_5	C_R3_1581_6
R3_1597	TC_R3_1597	C_R3_1597_1	C_R3_1597_2	C_R3_1597_3	C_R3_1597_4	C_R3_1597_5	C_R3_1597_6
R3_1607	TC_R3_1607	C_R3_1607_1	C_R3_1607_2	C_R3_1607_3	C_R3_1607_4	C_R3_1607_5	C_R3_1607_6
R3_1617	TC_R3_1617	C_R3_1617_1	C_R3_1617_2	C_R3_1617_3	C_R3_1617_4	C_R3_1617_5	C_R3_1617_6
R3_1717	TC_R3_1717	C_R3_1717_1	C_R3_1717_2	C_R3_1717_3	C_R3_1717_4	C_R3_1717_5	C_R3_1717_6
R3_1914	TC_R3_1914	C_R3_1914_1	C_R3_1914_2	C_R3_1914_3	C_R3_1914_4	C_R3_1914_5	C_R3_1914_6
R3_249	TC_R3_249	C_R3_249_1	C_R3_249_2	C_R3_249_3	C_R3_249_4	C_R3_249_5	C_R3_249_6
R3_250	TC_R3_250	C_R3_250_1	C_R3_250_2	C_R3_250_3	C_R3_250_4	C_R3_250_5	C_R3_250_6
R3_252	TC_R3_252	C_R3_252_1	C_R3_252_2	C_R3_252_3	C_R3_252_4	C_R3_252_5	C_R3_252_6
R3_449	TC_R3_449	C_R3_449_1	C_R3_449_2	C_R3_449_3	C_R3_449_4	C_R3_449_5	C_R3_449_6
R3_450	TC_R3_450	C_R3_450_1	C_R3_450_2	C_R3_450_3	C_R3_450_4	C_R3_450_5	C_R3_450_6
R3_612	TC_R3_612	C_R3_612_1	C_R3_612_2	C_R3_612_3	C_R3_612_4	C_R3_612_5	C_R3_612_6
R3_613	TC_R3_613	C_R3_613_1	C_R3_613_2	C_R3_613_3	C_R3_613_4	C_R3_613_5	C_R3_613_6
R3_630	TC_R3_630	C_R3_630_1	C_R3_630_2	C_R3_630_3	C_R3_630_4	C_R3_630_5	C_R3_630_6
R3_643	TC_R3_643	C_R3_643_1	C_R3_643_2	C_R3_643_3	C_R3_643_4	C_R3_643_5	C_R3_643_6
R3_646	TC_R3_646	C_R3_646_1	C_R3_646_2	C_R3_646_3	C_R3_646_4	C_R3_646_5	C_R3_646_6
R3_659	TC_R3_659	C_R3_659_1	C_R3_659_2	C_R3_659_3	C_R3_659_4	C_R3_659_5	C_R3_659_6
R3_665	TC_R3_665	C_R3_665_1	C_R3_665_2	C_R3_665_3	C_R3_665_4	C_R3_665_5	C_R3_665_6
R3_666	TC_R3_666	C_R3_666_1	C_R3_666_2	C_R3_666_3	C_R3_666_4	C_R3_666_5	C_R3_666_6
R3_885	TC_R3_885	C_R3_885_1	C_R3_885_2	C_R3_885_3	C_R3_885_4	C_R3_885_5	C_R3_885_6
R3_918	TC_R3_918	C_R3_918_1	C_R3_918_2	C_R3_918_3	C_R3_918_4	C_R3_918_5	C_R3_918_6

FIG. 21

2200
↙

	TRIPC					
	TRIPC1	TRIPC2	TRIPC3	TRIPC4	TRIPC5	TRIPC6
TRIPC Total Volume	TC1	TC2	15	TC4	TC5	TC6
TRIPC Rule Trigger Union Count	UC1	UC2	15	UC4	UC5	UC6
TRIPC Rule Trigger Overlap Count	OC1	OC2	31	OC4	OC5	OC6
Over Trigger Percent	7.05%	9.98%	106.67%	26.57%	22.83%	4.29%

FIG. 22

2300

		Rule Trigger Distribution on Each TRTPC					
	Rule Trigger Total	TRTPC1	TRTPC2	TRTPC3	TRTPC4	TRTPC5	TRTPC6
R1_18 %	TC_R1_18	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%
R1_203 %	TC_R1_203	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
R1_42 %	TC_R1_42	99.67%	0.00%	0.00%	0.00%	0.00%	0.33%
R1_52 %	TC_R1_52	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%
R1_80 %	TC_R1_80	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
R1_83 %	TC_R1_83	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
R1_84 %	TC_R1_84	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R1_9 %	TC_R1_9	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
R1_90 %	TC_R1_90	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R3_1107 %	TC_R3_1107	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_1110 %	TC_R3_1110	95.09%	4.91%	0.00%	0.00%	0.00%	0.00%
R3_1597 %	TC_R3_1597	95.47%	3.25%	0.00%	0.77%	0.17%	0.34%
R3_1607 %	TC_R3_1607	96.01%	2.00%	0.00%	0.25%	0.50%	1.25%
R3_1617 %	TC_R3_1617	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_1670 %	TC_R3_1670	99.84%	0.00%	0.00%	0.16%	0.00%	0.00%
R3_1717 %	TC_R3_1717	0.00%	2.76%	0.00%	0.46%	0.23%	96.54%
R3_1914 %	TC_R3_1914	81.82%	0.00%	0.00%	0.00%	18.18%	0.00%
R3_249 %	TC_R3_249	71.09%	0.00%	0.00%	28.91%	0.00%	0.00%
R3_450 %	TC_R3_450	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_612 %	TC_R3_612	93.36%	6.60%	0.00%	0.02%	0.00%	0.02%
R3_613 %	TC_R3_613	97.41%	2.59%	0.00%	0.00%	0.00%	0.00%
R3_616 %	TC_R3_616	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_628 %	TC_R3_628	93.96%	6.04%	0.00%	0.00%	0.00%	0.00%
R3_659 %	TC_R3_659	81.03%	13.55%	0.00%	3.33%	0.74%	1.35%
R3_665 %	TC_R3_665	80.00%	20.00%	0.00%	0.00%	0.00%	0.00%
R3_666 %	TC_R3_666	93.89%	2.99%	0.00%	2.31%	0.54%	0.27%
R3_885 %	TC_R3_885	96.77%	3.23%	0.00%	0.00%	0.00%	0.00%
R3_904 %	TC_R3_904	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R3_905 %	TC_R3_905	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_909 %	TC_R3_909	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_910 %	TC_R3_910	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TRTPC Volume		TC1	TC2	TC3	TC4	TC5	TC6

FIG. 23

2400

	Rule Trigger Total	Rule Trigger Coverage Percent of Each TRTPC					
		TRTPC1 %	TRTPC2 %	TRTPC3 %	TRTPC4 %	TRTPC5 %	TRTPC6 %
R1_18	TC_R1_18	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%
R1_203	TC_R1_203	7.66%	0.00%	0.00%	0.00%	0.00%	0.00%
R1_42	TC_R1_42	0.92%	0.00%	0.00%	0.00%	0.00%	0.11%
R1_52	TC_R1_52	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%
R1_80	TC_R1_80	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
R1_83	TC_R1_83	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
R1_84	TC_R1_84	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
R1_9	TC_R1_9	21.48%	0.00%	0.00%	0.00%	0.00%	0.00%
R1_90	TC_R1_90	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_1107	TC_R3_1107	0.48%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_1110	TC_R3_1110	1.19%	0.16%	0.00%	0.00%	0.00%	0.00%
R3_1597	TC_R3_1597	3.45%	0.30%	0.00%	0.59%	1.57%	0.43%
R3_1607	TC_R3_1607	1.19%	0.06%	0.00%	0.07%	1.57%	0.54%
R3_1617	TC_R3_1617	27.47%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_1670	TC_R3_1670	1.92%	0.00%	0.00%	0.07%	0.00%	0.00%
R3_1717	TC_R3_1717	0.00%	0.09%	0.00%	0.13%	0.79%	44.91%
R3_1914	TC_R3_1914	0.03%	0.00%	0.00%	0.00%	1.57%	0.00%
R3_249	TC_R3_249	0.28%	0.00%	0.00%	2.42%	0.00%	0.00%
R3_450	TC_R3_450	0.75%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_612	TC_R3_612	14.38%	2.57%	0.00%	0.07%	0.00%	0.11%
R3_613	TC_R3_613	0.58%	0.04%	0.00%	0.00%	0.00%	0.00%
R3_616	TC_R3_616	0.11%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_628	TC_R3_628	1.11%	0.18%	0.00%	0.00%	0.00%	0.00%
R3_659	TC_R3_659	2.03%	0.86%	0.00%	1.77%	4.72%	1.18%
R3_665	TC_R3_665	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%
R3_666	TC_R3_666	2.12%	0.17%	0.00%	1.11%	3.15%	0.21%
R3_885	TC_R3_885	1.85%	0.16%	0.00%	0.00%	0.00%	0.00%
R3_904	TC_R3_904	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_905	TC_R3_905	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_909	TC_R3_909	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%
R3_910	TC_R3_910	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TRTPC Volume		TC1	TC2	TC3	TC4	TC5	TC6

FIG. 24

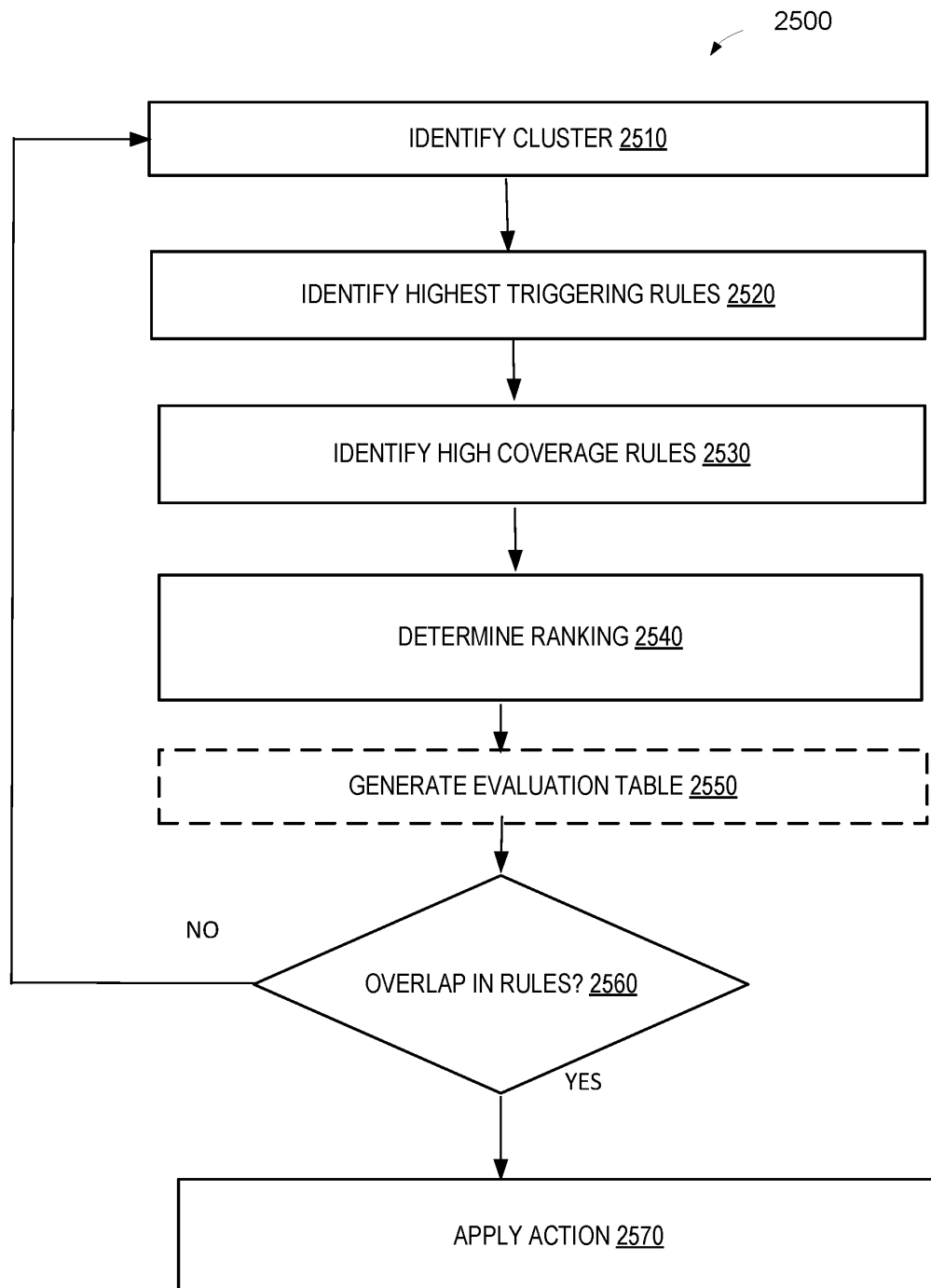


FIG. 25

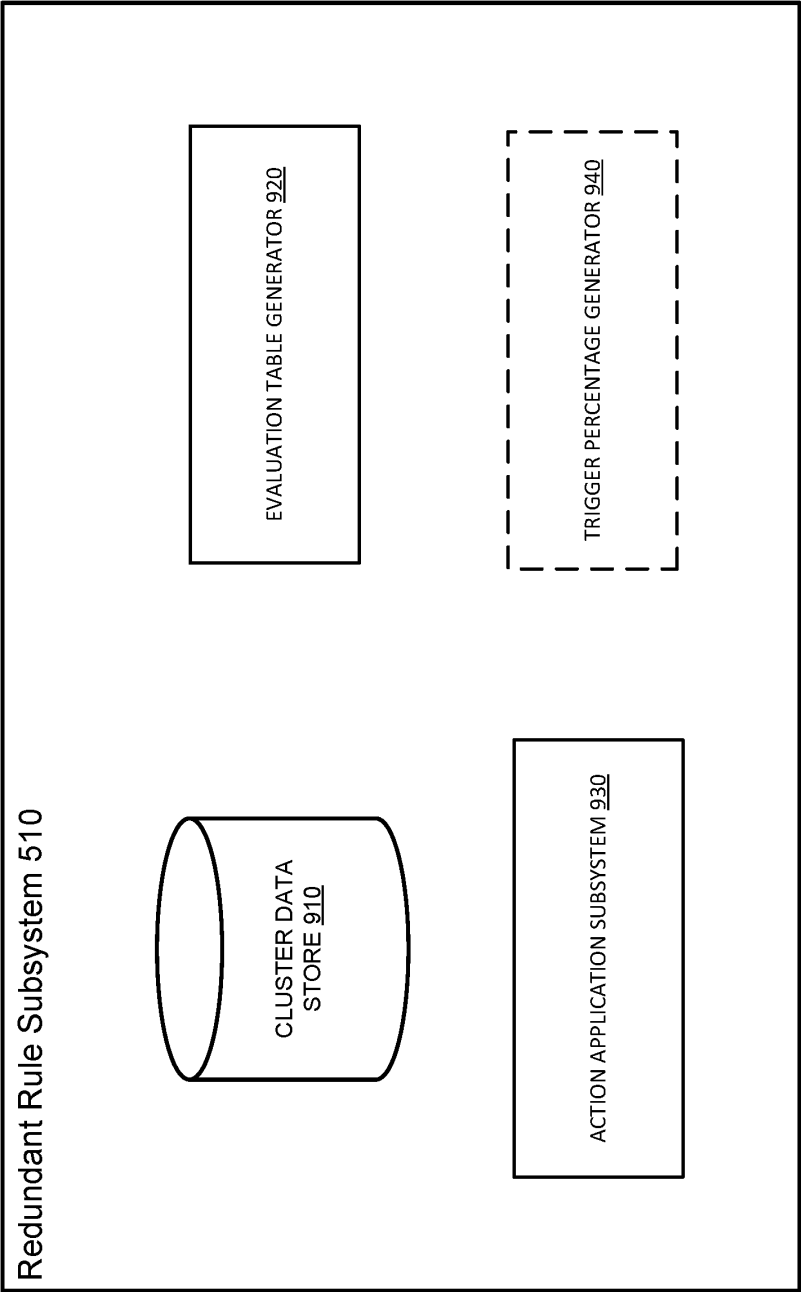


FIG. 26

2700

Current Rejection Rate			Total Volume		
7.58%, XX out of YYY been rejected			YYY	Total Rejection Percentage Cumulative Change	Total Rejects
Rule ID	Recommendation	Notes	Cumulative Impact: Reduction Percent of Rejection	Total Rejection Percentage Cumulative Change	Total Rejects
R1_83andR1_90	ADD	consolidation	0.00%	7.58% XX	XX
R3_350andR3_1115	ADD	consolidation	0.00%	7.58% XX	XX
...					
R3_1110andR3_1870	ADD	consolidation	0.00%	7.58% XX	XX
R1_83	REMOVE	covered by consolidation	0.00%	7.58% XX	XX
...					
R3_643	REMOVE	covered by consolidation	0.00%	7.58% XX	XX
R3_1581	REMOVE	covered by consolidation	0.00%	7.58% XX	XX
...					
R3_1597	REMOVE	covered by consolidation	0.00%	7.58% XX	XX
R3_666	REMOVE	covered by consolidation	0.00%	7.58% XX	XX
R3_393	REMOVE	performance low	0.00%	7.58% XX	XX
R3_905	REMOVE	performance low	-0.12%	7.57% XX1	XX1
...					
R1_52	REMOVE	performance low	-0.16%	7.57% XX2	XX2
R3_918	REMOVE	performance low	-0.16%	7.57% XX3	XX3
R3_1230	REMOVE	performance low	-0.16%	7.57% XX3	XX3
R3_414	REMOVE	performance low	-0.16%	7.57% XX3	XX3
...					
R3_904	REMOVE	performance low and not triggering	-0.16%	7.57% XX3	XX3
...					
R1_84	REMOVE	performance low and not triggering	-0.16%	7.57% XX3	XX3
...					
R3_913	REMOVE	performance low and not triggering	-0.16%	7.57% XX3	XX3
R1_90	Set to Surveillance	performance moderate and not triggering	-0.16%	7.57% XX3	XX3

FIG. 27

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Rule ID	Recommendation	rule performance description, prior implementation				rule performance description, post implementation				Cumulative Impact Reduction Percent of Rejection
		Trigger Percent Nominal Level	Detect Rate Nominal Level	Precision Nominal Level	Overlap Reject Rate Nominal Level	Trigger Percent Nominal Level	Detect Rate Nominal Level	Precision Nominal Level	Overlap Reject Rate Nominal Level	
R1 82and81 80	ADD									0.00%
R1 208and3 643	ADD									0.00%
R3 1110or3 1070	ADD									0.00%
R1 60	REMOVE	High	High	Moderate LOW	Moderate LOW	Moderate	LOW	LOW	High	0.00%
R3 612	REMOVE	High	High	Moderate High	Moderate High	High	High	Moderate	Moderate	0.00%
R3 1817	REMOVE	High	LOW	Moderate High	Moderate High	High	High	Moderate	Moderate	0.00%
R1 328	REMOVE	Moderate	LOW	LOW	LOW	High	Moderate	Moderate High	Moderate	0.00%
R3 1397	REMOVE	High	High	LOW	High	High	High	Moderate LOW	LOW	0.00%
R3 635	REMOVE	High	High	High	Moderate	Moderate	High	Moderate LOW	LOW	0.00%
R3 254	REMOVE	LOW	LOW	Moderate	Moderate	LOW	LOW	LOW	High	0.00%
R3 389	REMOVE	Moderate	Moderate	LOW	Moderate	Moderate	LOW	LOW	High	0.00%
R3 1873	REMOVE	LOW	LOW	LOW	High	Moderate	LOW	Moderate	Moderate	0.00%
R1 72	REMOVE	LOW	LOW	LOW	Moderate	Moderate	LOW	Moderate	Moderate	0.00%
R3 616	REMOVE	LOW	LOW	Moderate	Moderate	LOW	LOW	LOW	LOW	0.00%
R1 66	REMOVE	Moderate	Moderate	Moderate LOW	Moderate LOW	Moderate	LOW	LOW	LOW	0.01%
R1 9	REMOVE	High	High	Moderate	Moderate	High	High	Moderate	Moderate	-0.12%
R1 68	REMOVE	High	High	Moderate	Moderate	LOW	LOW	LOW	High	-0.17%
R3 903	REMOVE	LOW	Moderate	Moderate LOW	Moderate LOW	LOW	Moderate	Moderate High	High	-0.17%
R3 908	REMOVE	Moderate	High	Moderate	Moderate	Moderate	LOW	LOW	LOW	-0.12%
R3 1280	REMOVE	LOW	Moderate	High	Moderate	LOW	Moderate	Moderate	Moderate	-0.16%
R3 434	REMOVE	Moderate	Moderate	Moderate High	Moderate High	High	LOW	LOW	High	-0.16%
R3 504	REMOVE	LOW	LOW	LOW	LOW	LOW	LOW	LOW	LOW	-0.15%
R1 84	REMOVE	Moderate	Moderate	Moderate	Moderate	LOW	LOW	LOW	High	-0.16%
R3 913	REMOVE	LOW	Moderate	Moderate LOW	Moderate LOW	LOW	Moderate	Moderate LOW	Moderate	-0.16%
R3 257	Set to Surveillance	LOW	Moderate	High	LOW	LOW	Moderate	Moderate LOW	LOW	-0.16%
R3 917	Set to Surveillance	Moderate	Moderate	High	LOW	LOW	LOW	LOW	LOW	-0.16%
R1 90	Set to Surveillance	LOW	LOW	High	Moderate	LOW	Moderate	Moderate High	High	-0.16%

FIG. 28

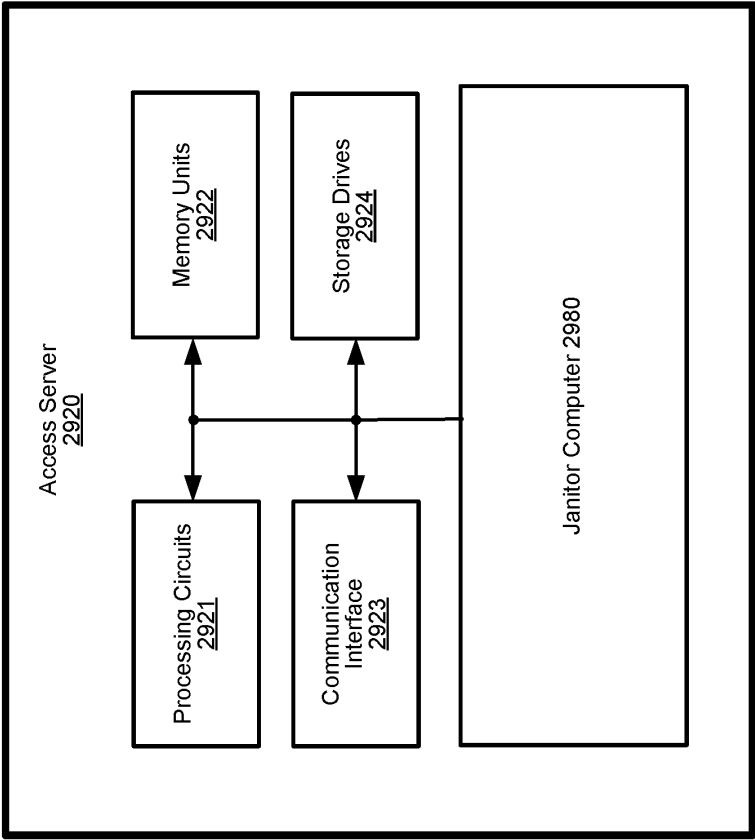


FIG. 29

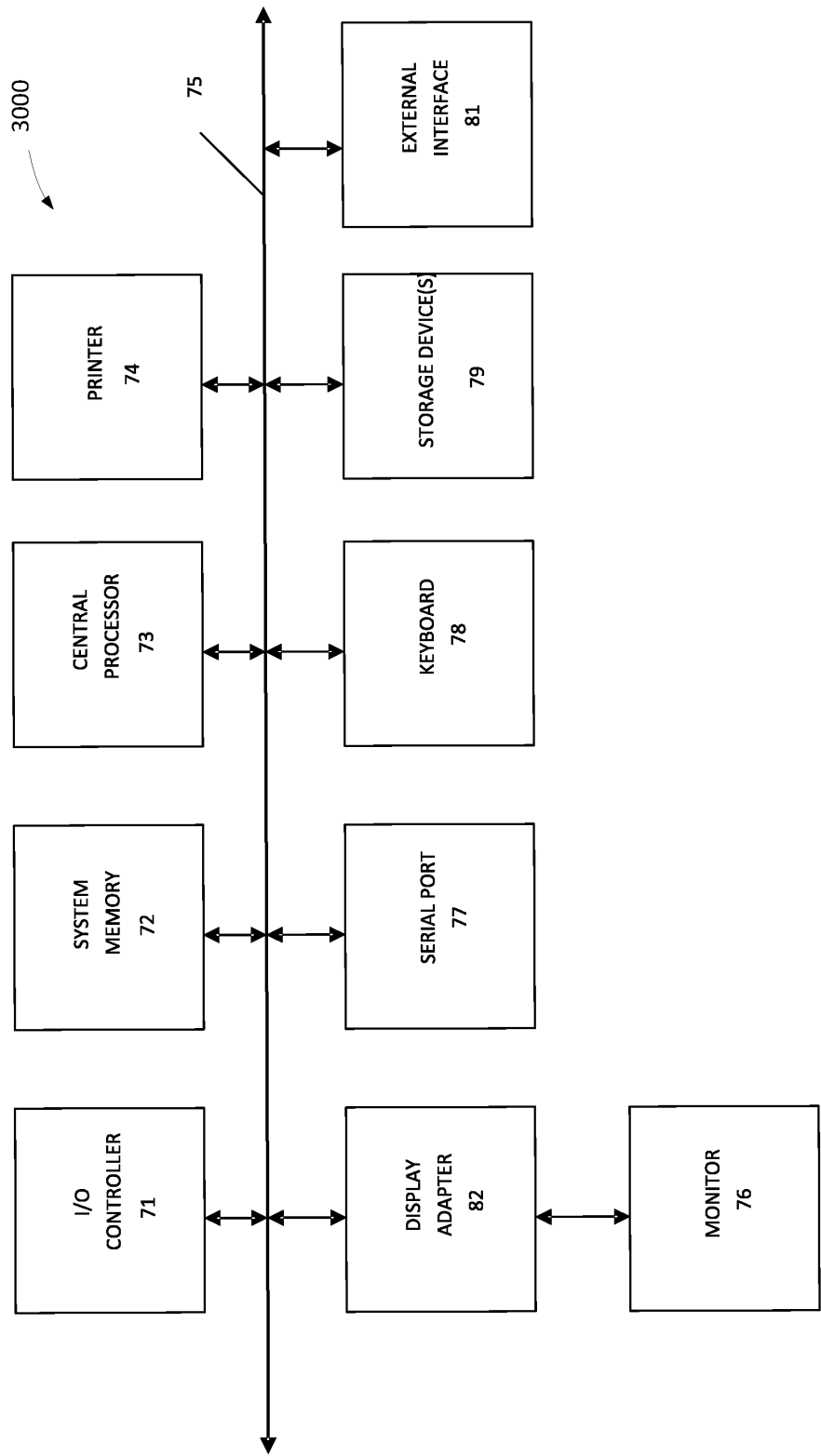


FIG. 30