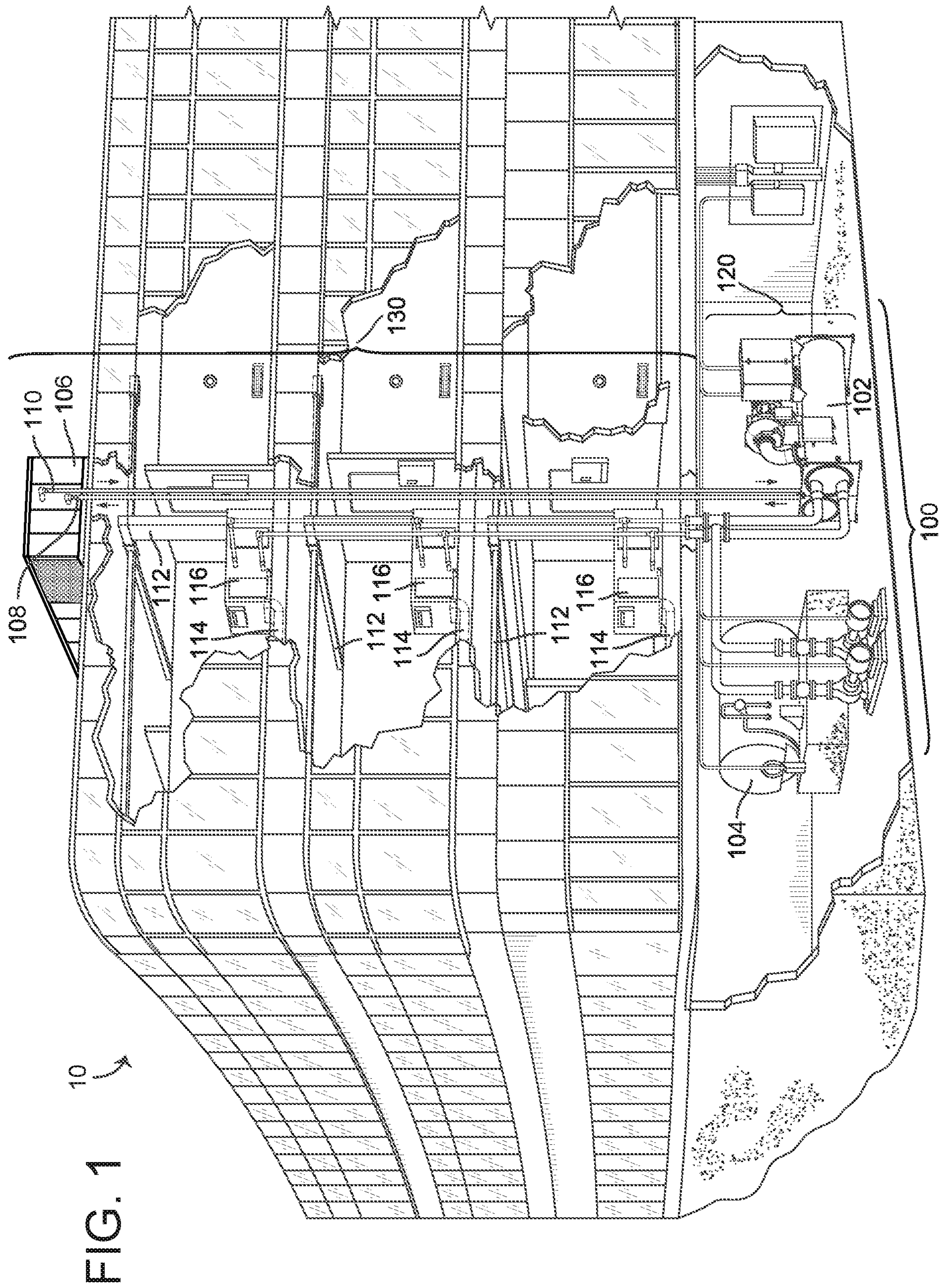




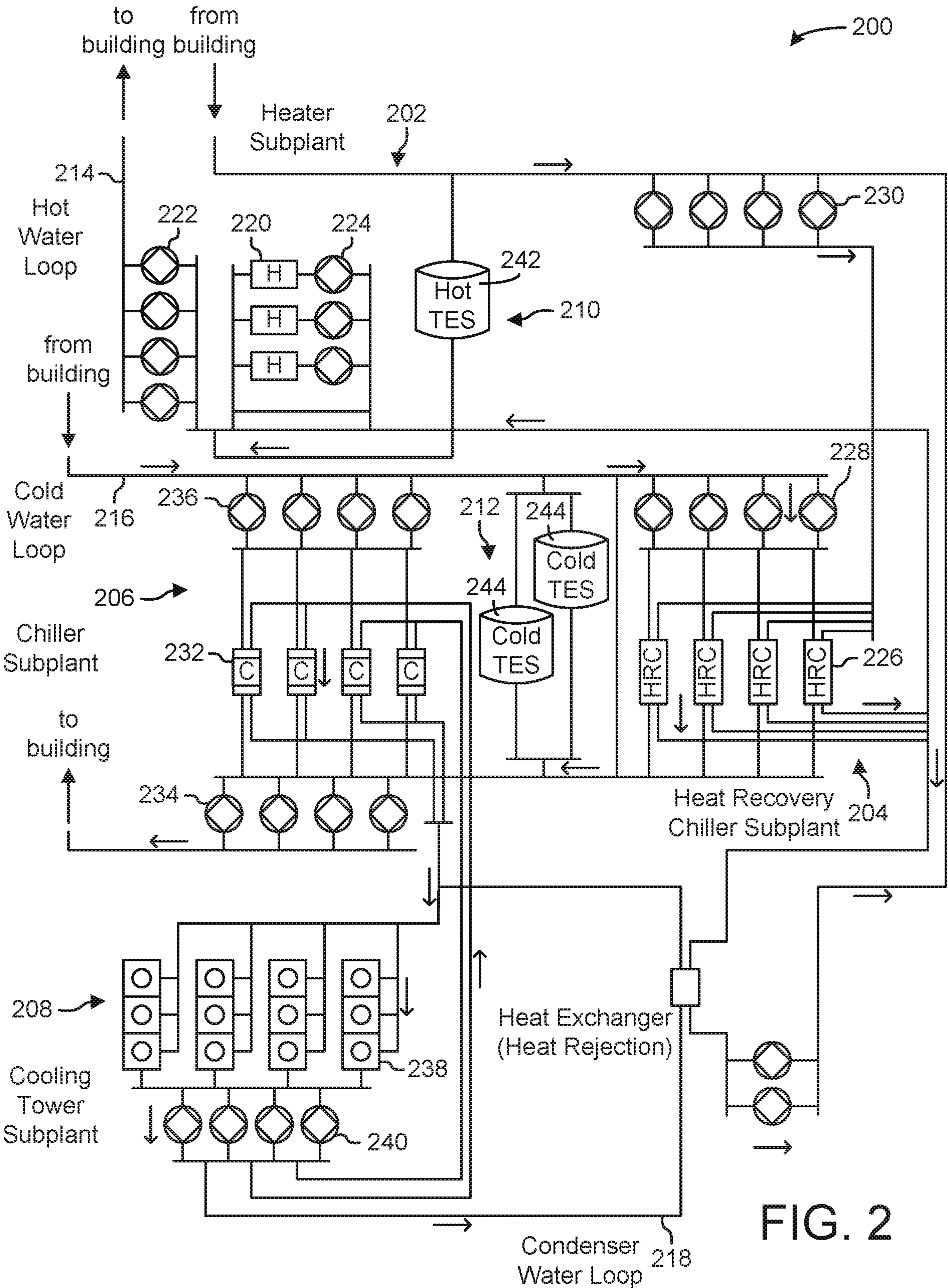


FIG. 2

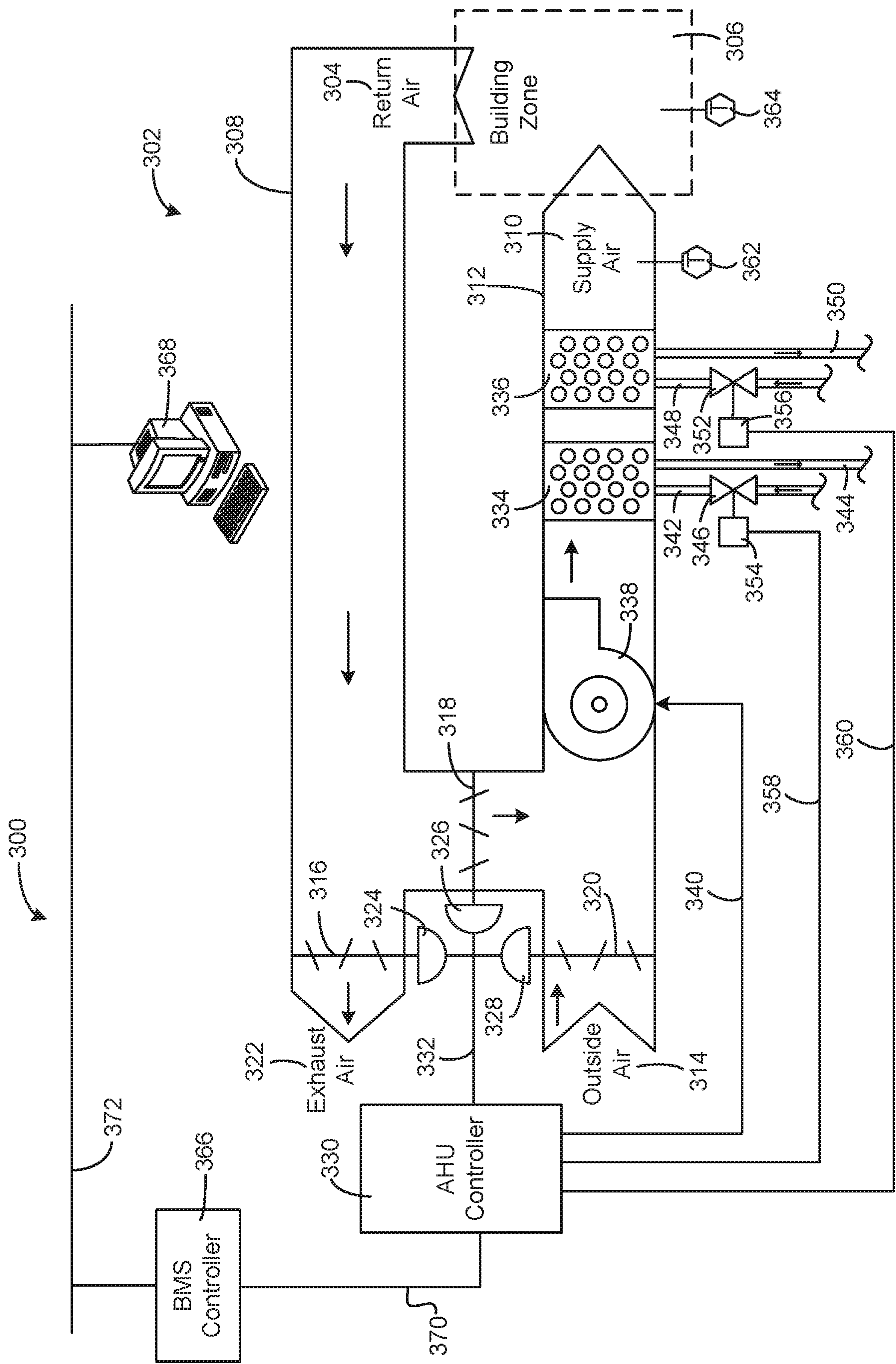


FIG. 3

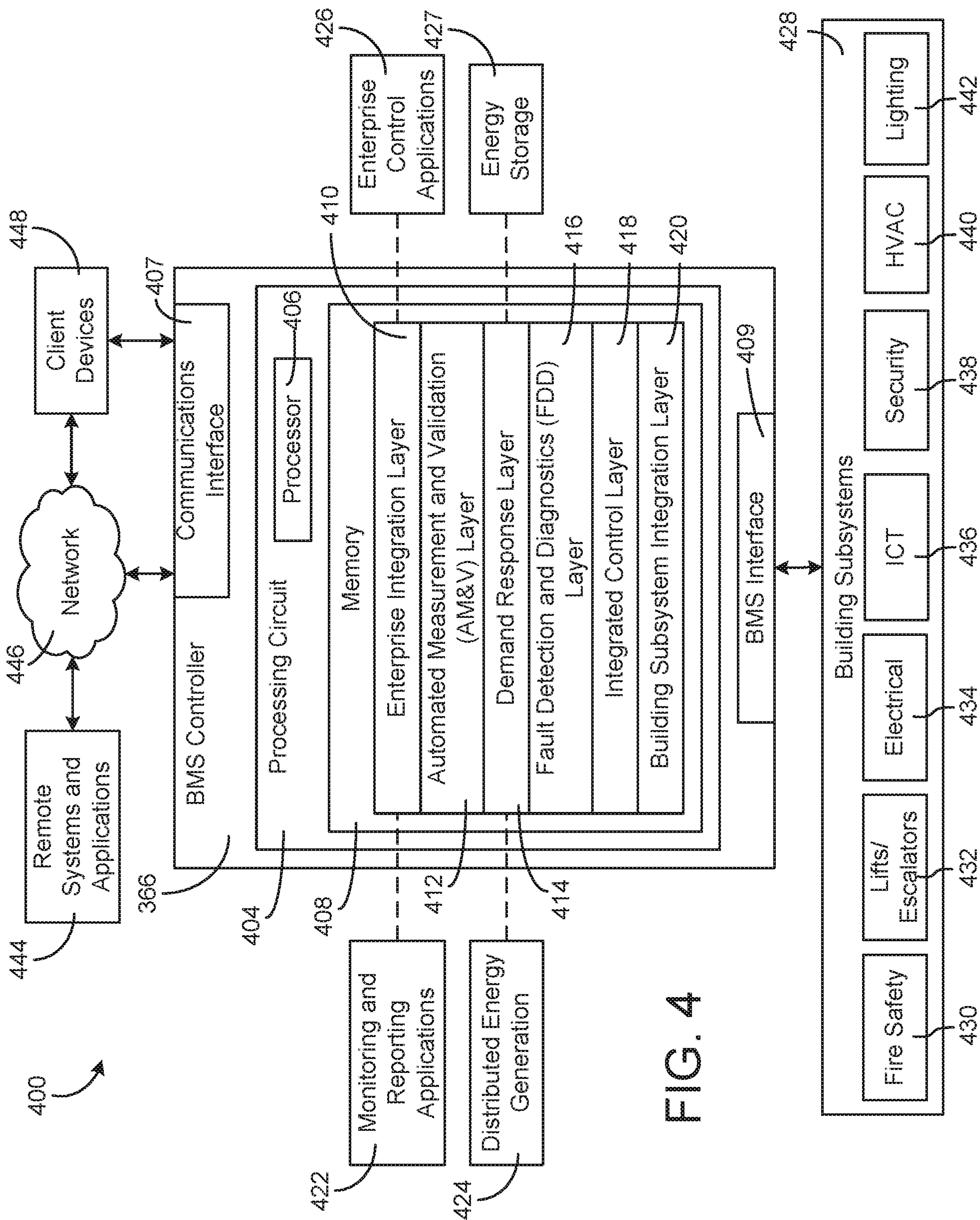


FIG. 4

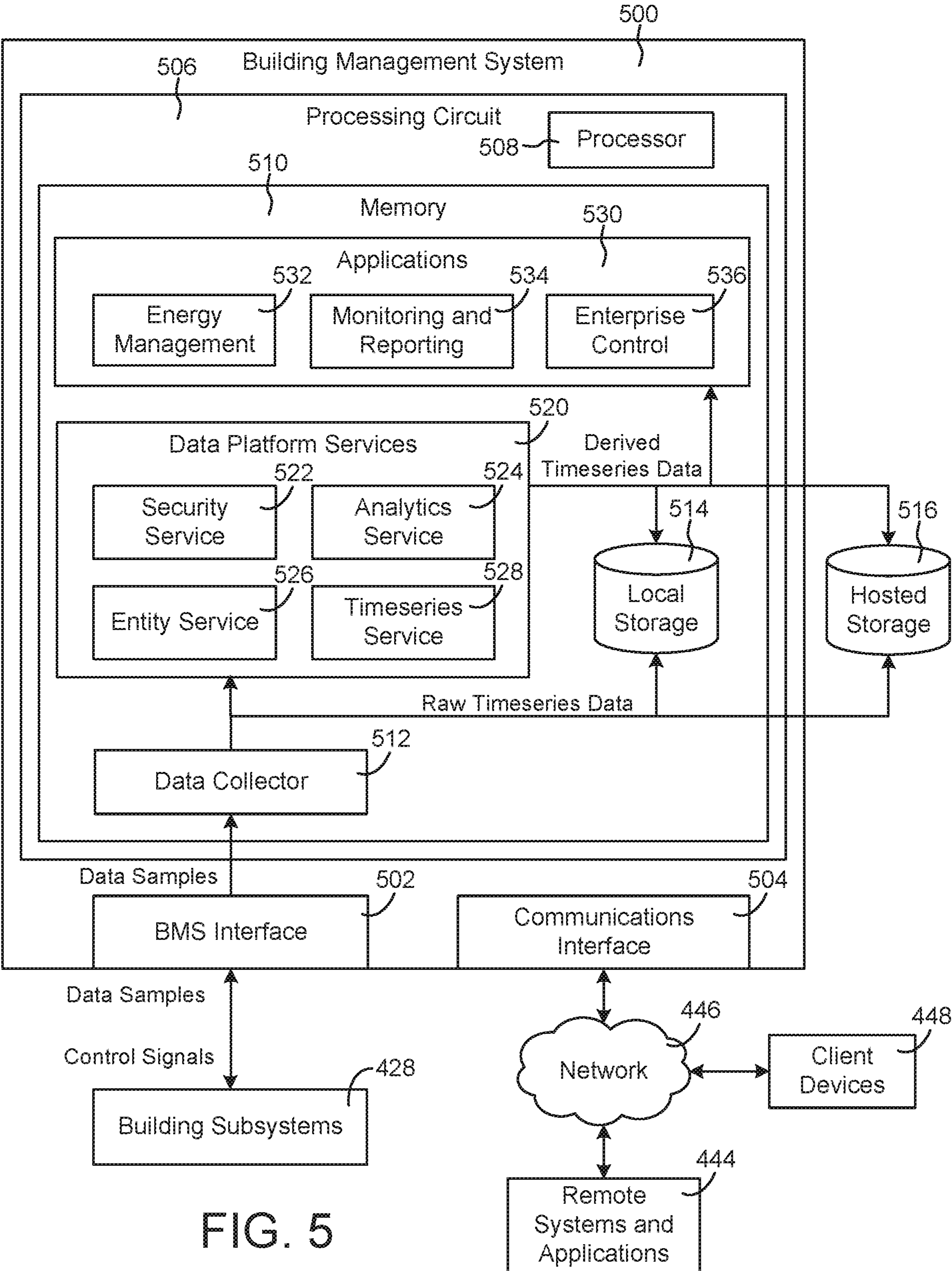


FIG. 5

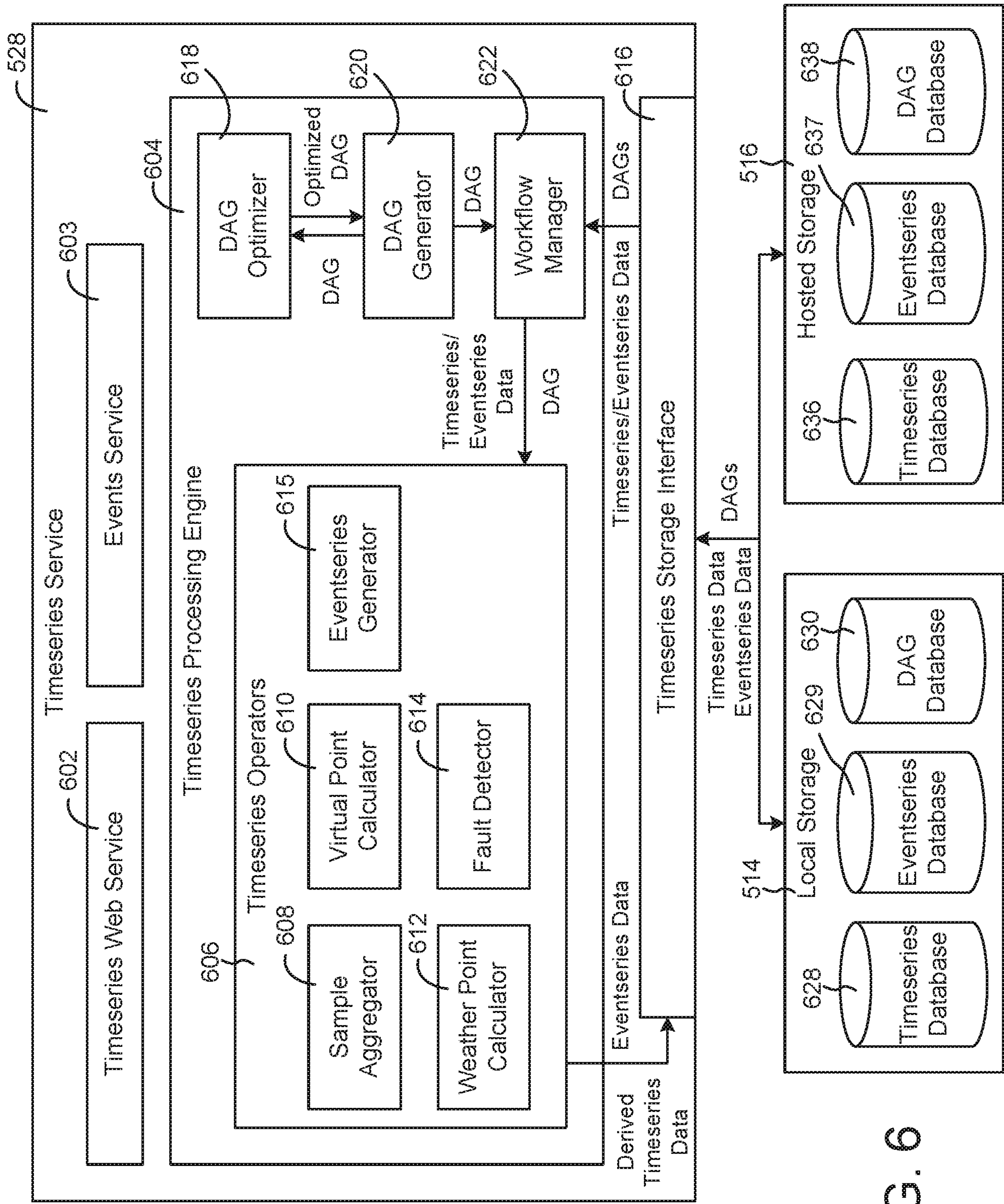


FIG. 6

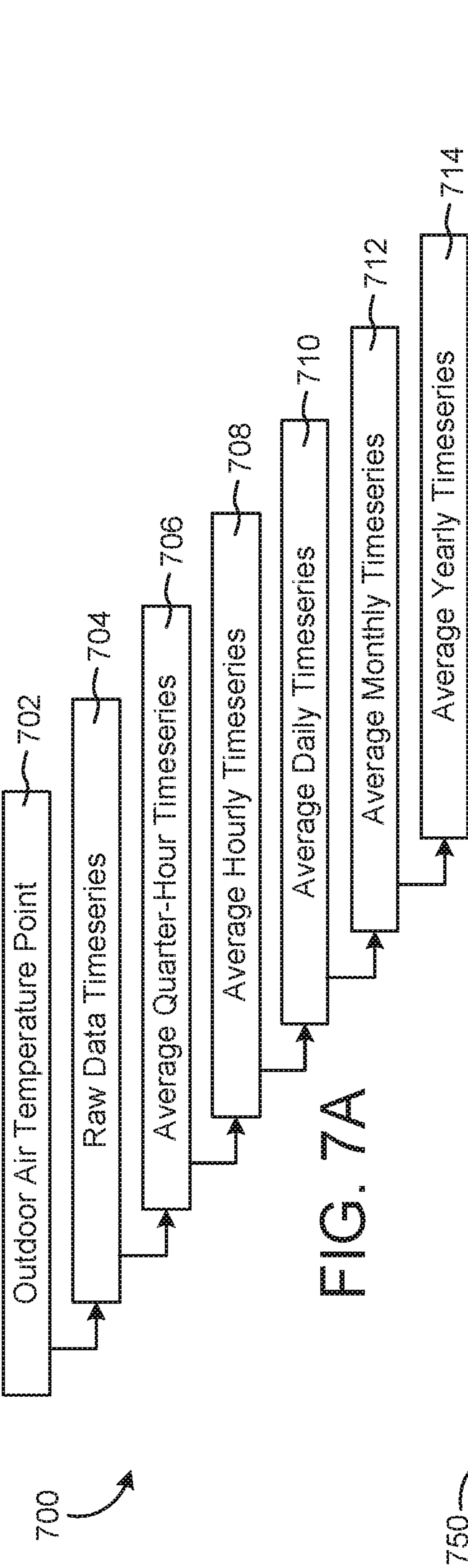


FIG. 7A

Raw Data Timeseries		Average Quarter-Hour Timeseries		Average Hourly Timeseries		Average Daily Timeseries	
Timestamp	Value	Timestamp	Value	Timestamp	Value	Timestamp	Value
2015-12-31T23:10:00	10	2015-12-31T23:00:00	10	2015-12-31T23:00:00	28.8	2015-12-31T23:00:00	28.8
2015-12-31T23:20:01	20	2015-12-31T23:15:00	20				
2015-12-31T23:30:02	30	2015-12-31T23:30:00	35				
2015-12-31T23:40:03	40						
2015-12-31T23:50:04	50	2015-12-31T23:45:00	50				
2016-01-01T00:00:05	60	2016-01-01T00:00:00	65	2016-01-01T00:00:00	87.5	2016-01-01T00:00:00	87.5
2016-01-01T00:10:06	70						
2016-01-01T00:20:07	80	2016-01-01T00:15:00	80				
2016-01-01T00:30:08	90	2016-01-01T00:30:00	95				
2016-01-01T00:40:09	100						
2016-01-01T00:50:10	110	2016-01-01T00:45:00	110				

FIG. 7B

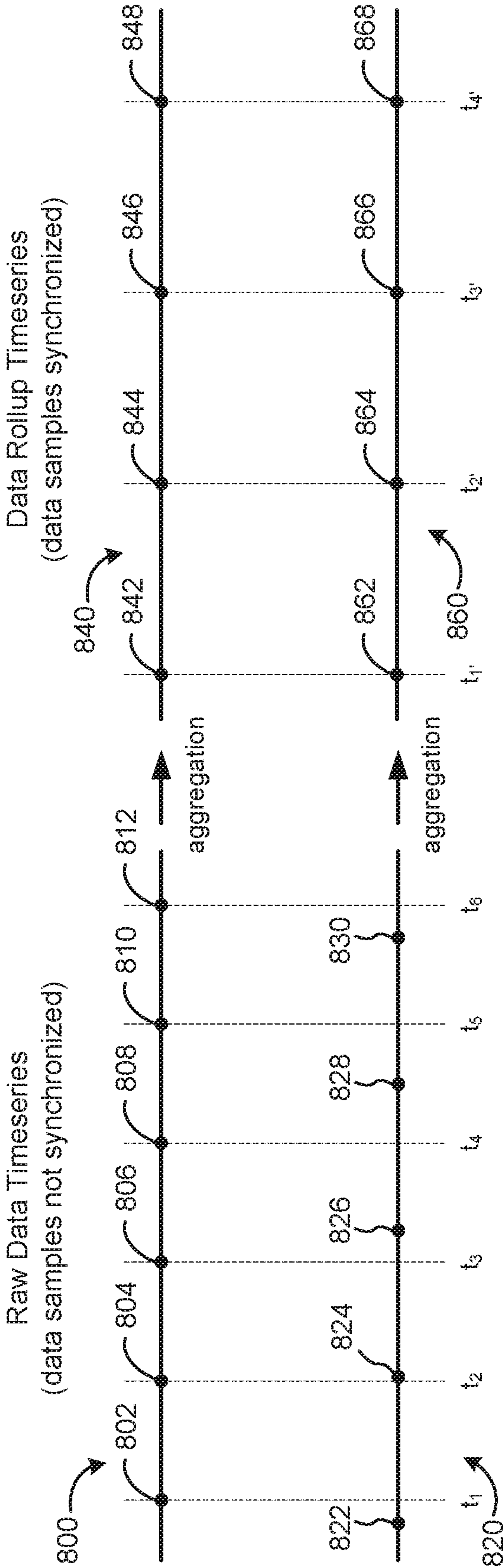


FIG. 8

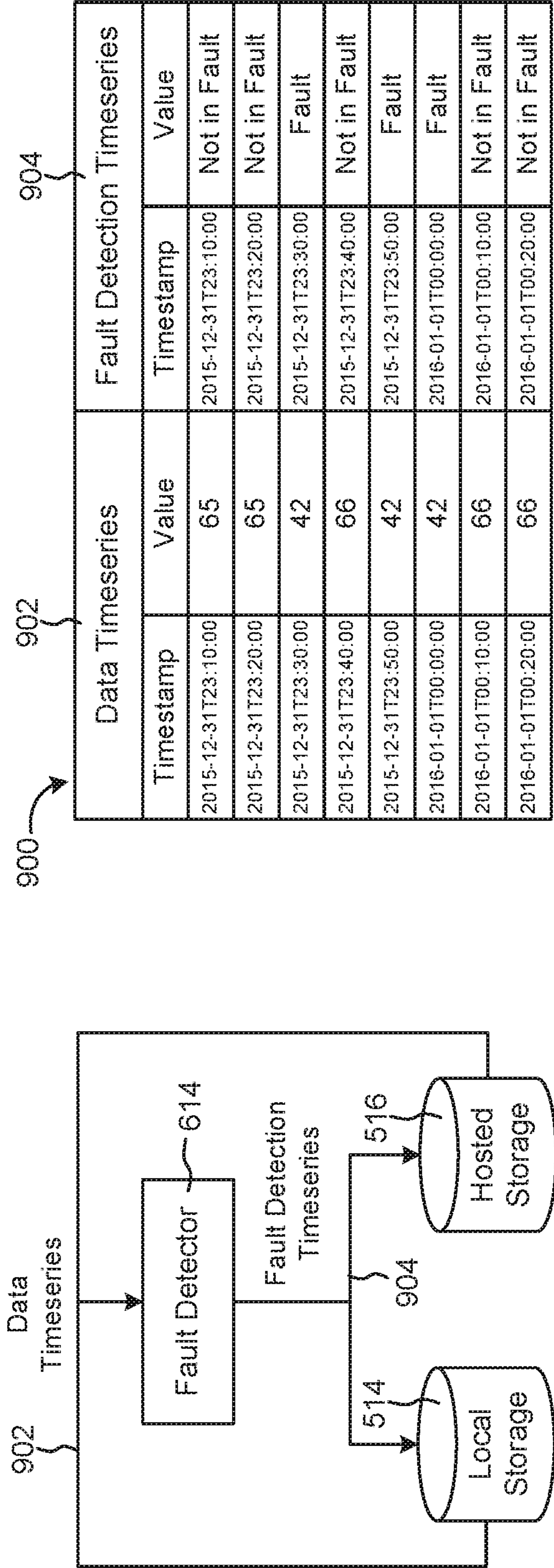


FIG. 9A

FIG. 9B

910

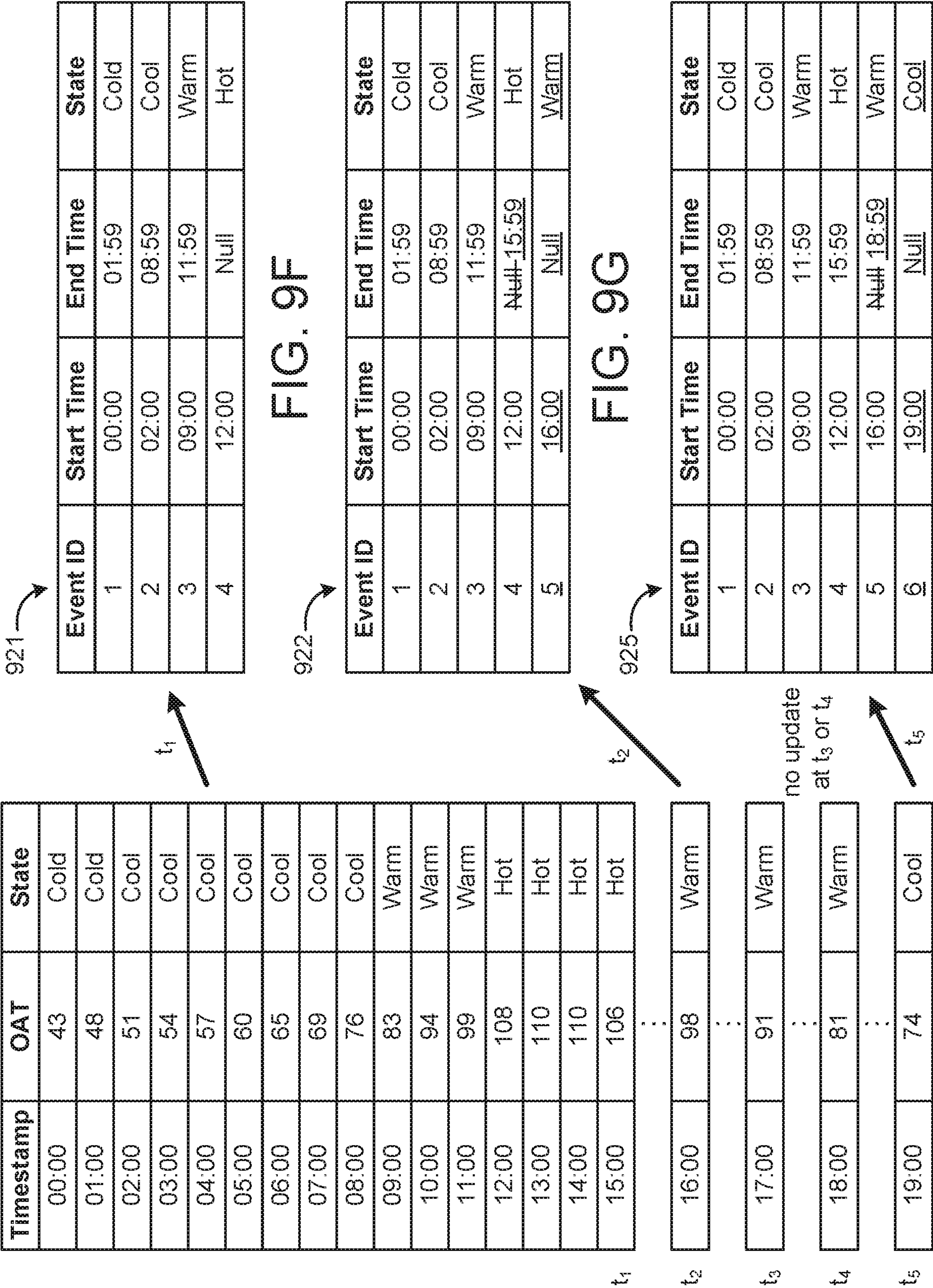
Timestamp	OAT	State
00:00	43	Cold
01:00	48	Cold
02:00	51	Cool
03:00	54	Cool
04:00	57	Cool
05:00	60	Cool
06:00	65	Cool
07:00	69	Cool
08:00	76	Cool
09:00	83	Warm
10:00	94	Warm
11:00	99	Warm
12:00	108	Hot
13:00	110	Hot
14:00	110	Hot
15:00	106	Hot
16:00	98	Warm
17:00	91	Warm
18:00	81	Warm
19:00	74	Cool
20:00	65	Cool
21:00	54	Cool
22:00	48	Cold
23:00	44	Cold

FIG. 9C

920

Event ID	Start Time	End Time	State
1	00:00	01:59	Cold
2	02:00	08:59	Cool
3	09:00	11:59	Warm
4	12:00	15:59	Hot
5	16:00	18:59	Warm
6	19:00	21:59	Cool
7	22:00	23:59	Cold

FIG. 9D



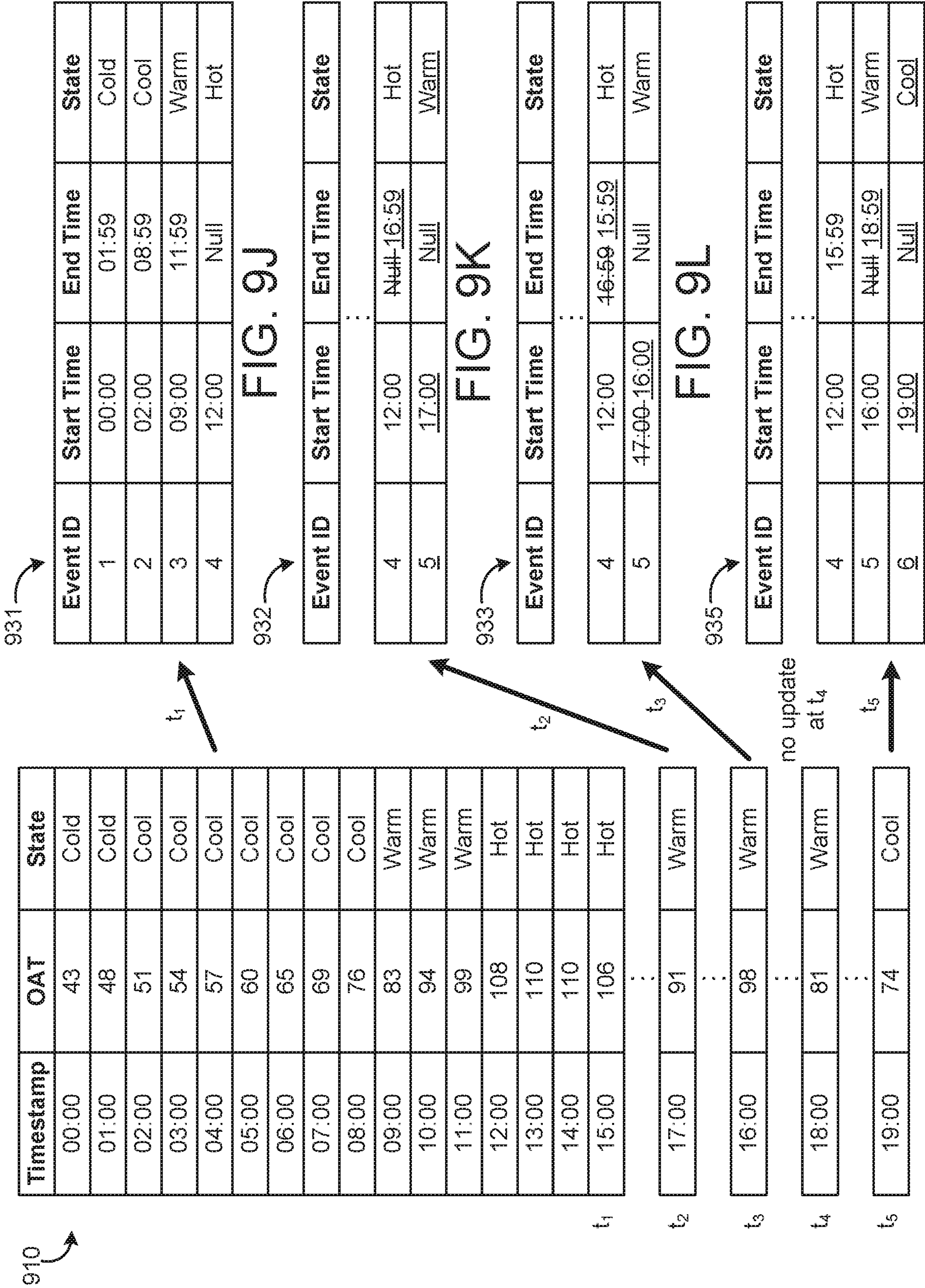


FIG. 9I

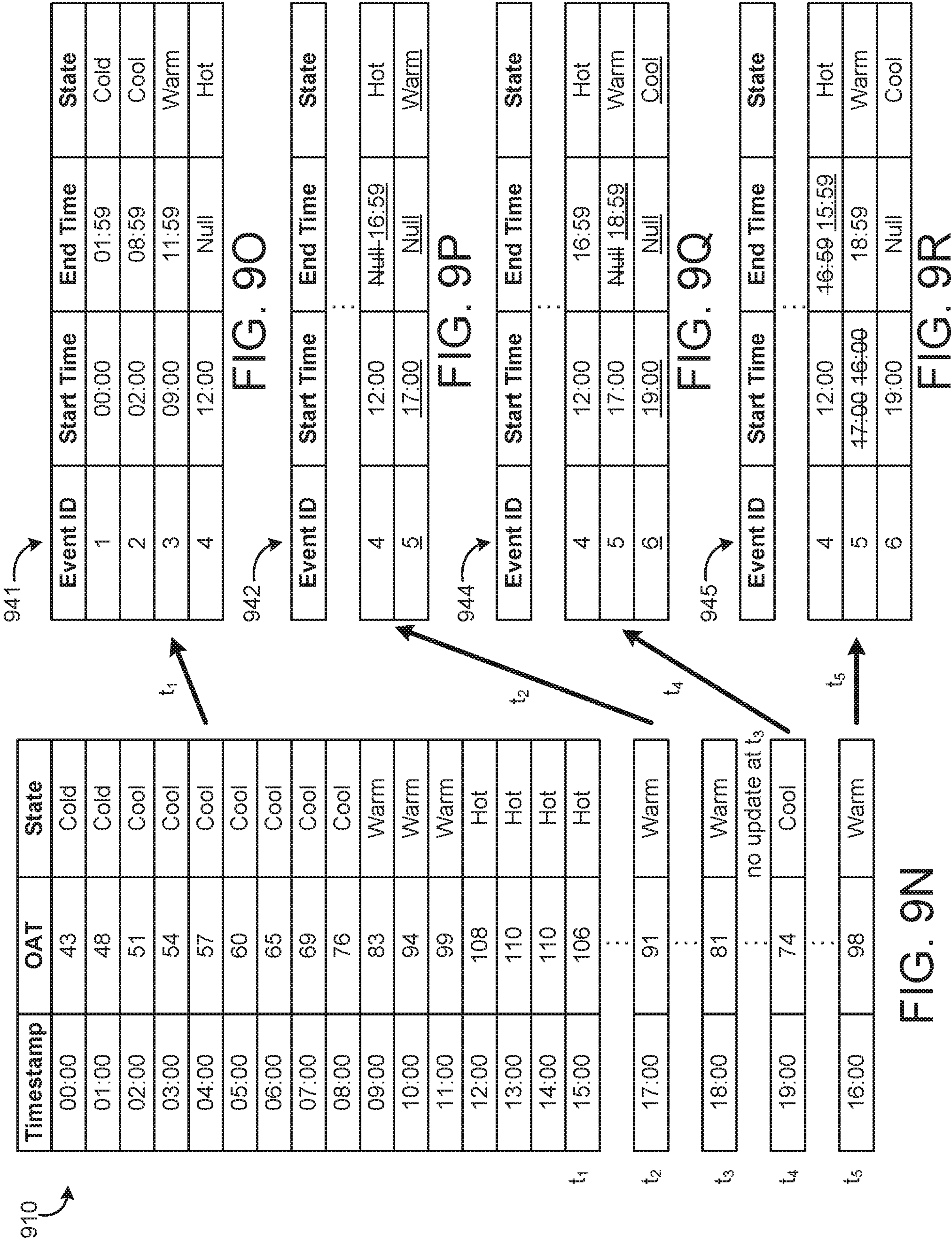


FIG. 9N

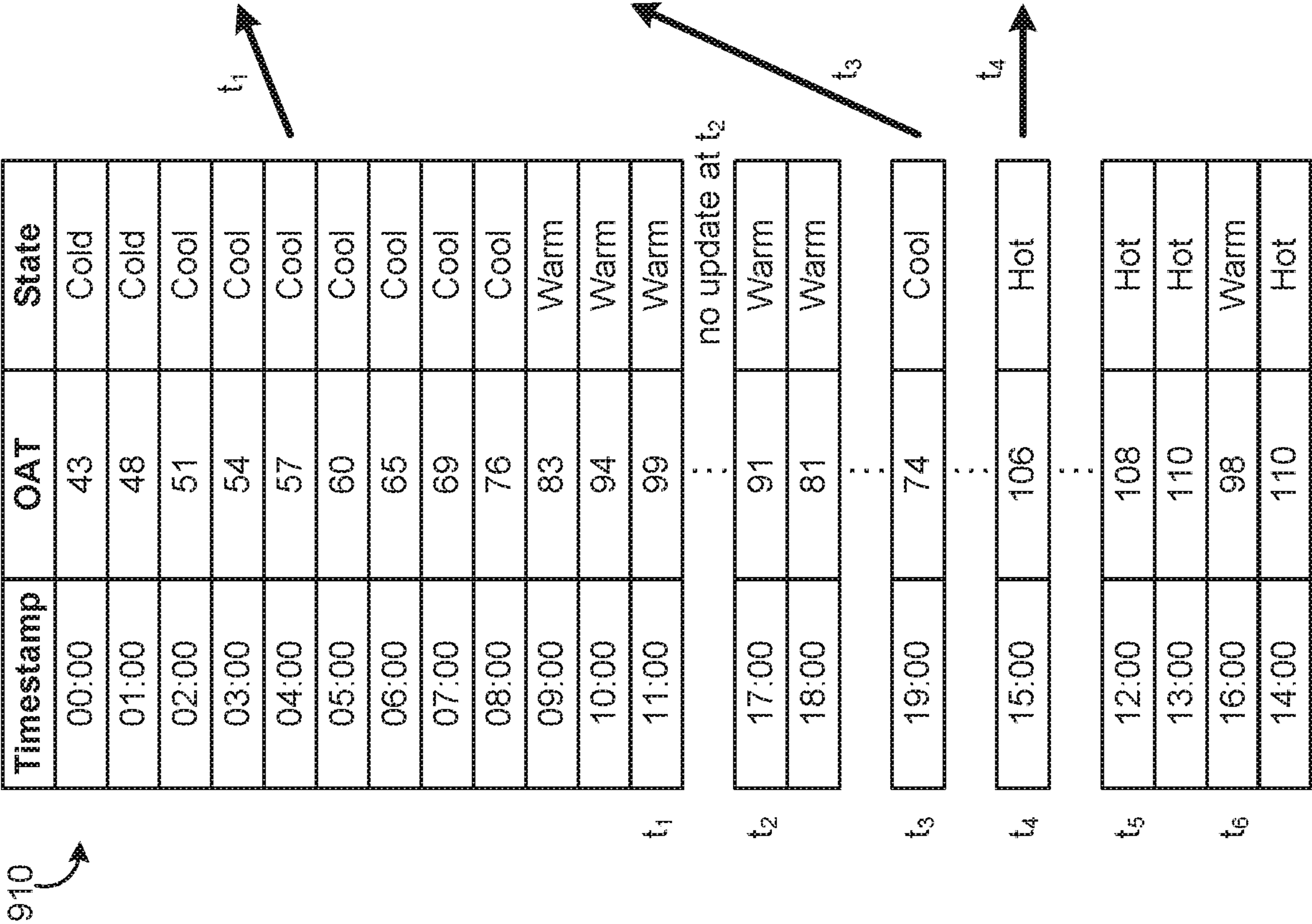


FIG. 9S

951

Event ID	Start Time	End Time	State
1	00:00	01:59	Cold
2	02:00	08:59	Cool
3	09:00	Null	Warm

FIG. 9T

953

Event ID	Start Time	End Time	State
1	00:00	01:59	Cold
2	02:00	08:59	Cool
3	09:00	Null-18:59	Warm
4	19:00	Null	Cool

FIG. 9U

954

Event ID	Start Time	End Time	State
1	00:00	01:59	Cold
2	02:00	08:59	Cool
3	09:00	48:59 14:59	Warm
5	15:00	16:59	Hot
6	17:00	18:59	Warm
4	19:00	Null	Cool

FIG. 9V

910

Timestamp	OAT	State
00:00	43	Cold
01:00	48	Cold
02:00	51	Cool
03:00	54	Cool
04:00	57	Cool
05:00	60	Cool
06:00	65	Cool
07:00	69	Cool
08:00	76	Cool
09:00	83	Warm
10:00	94	Warm
11:00	99	Warm
17:00	91	Warm
18:00	81	Warm
19:00	74	Cool
15:00	106	Hot

t₁

t₂

t₃

t₄

t₅

t₆

12:00	108	Hot
13:00	110	Hot

:

16:00	98	Warm
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:

14:00	110	Hot
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955

Event ID	Start Time	End Time	State
1	00:00	01:59	Cold
2	02:00	08:59	Cool
3	09:00	~~44:59~~ 11:59	Warm
5	~~45:00~~ 12:00	16:59	Hot
6	17:00	18:59	Warm
4	19:00	Null	Cool

FIG. 9X

956

Event ID	Start Time	End Time	State
1	00:00	01:59	Cold
2	02:00	08:59	Cool
3	09:00	11:59	Warm
5	12:00	~~46:59~~ 15:59	Hot
6	~~47:00~~ 16:00	18:59	Warm
4	19:00	Null	Cool

FIG. 9Y

FIG. 9W

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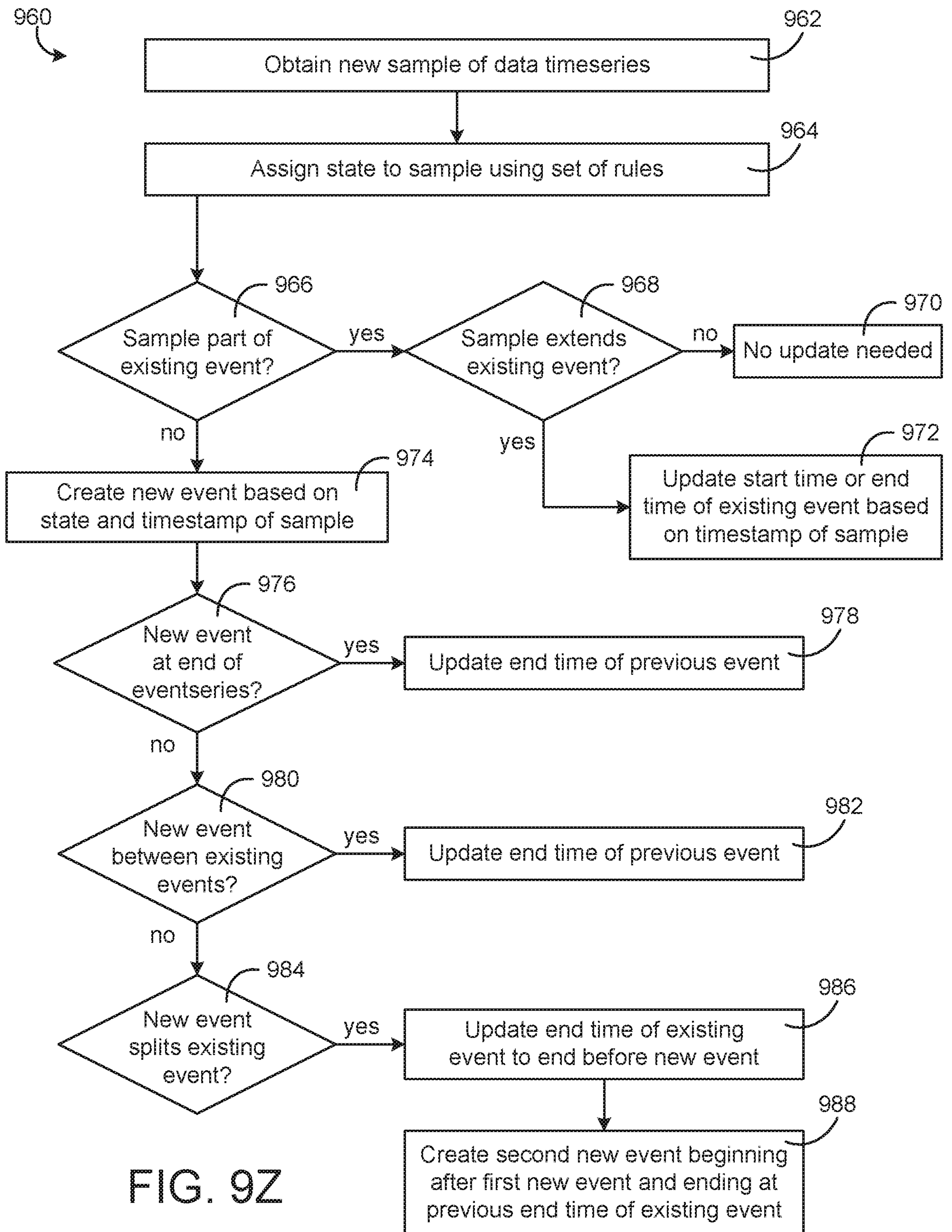
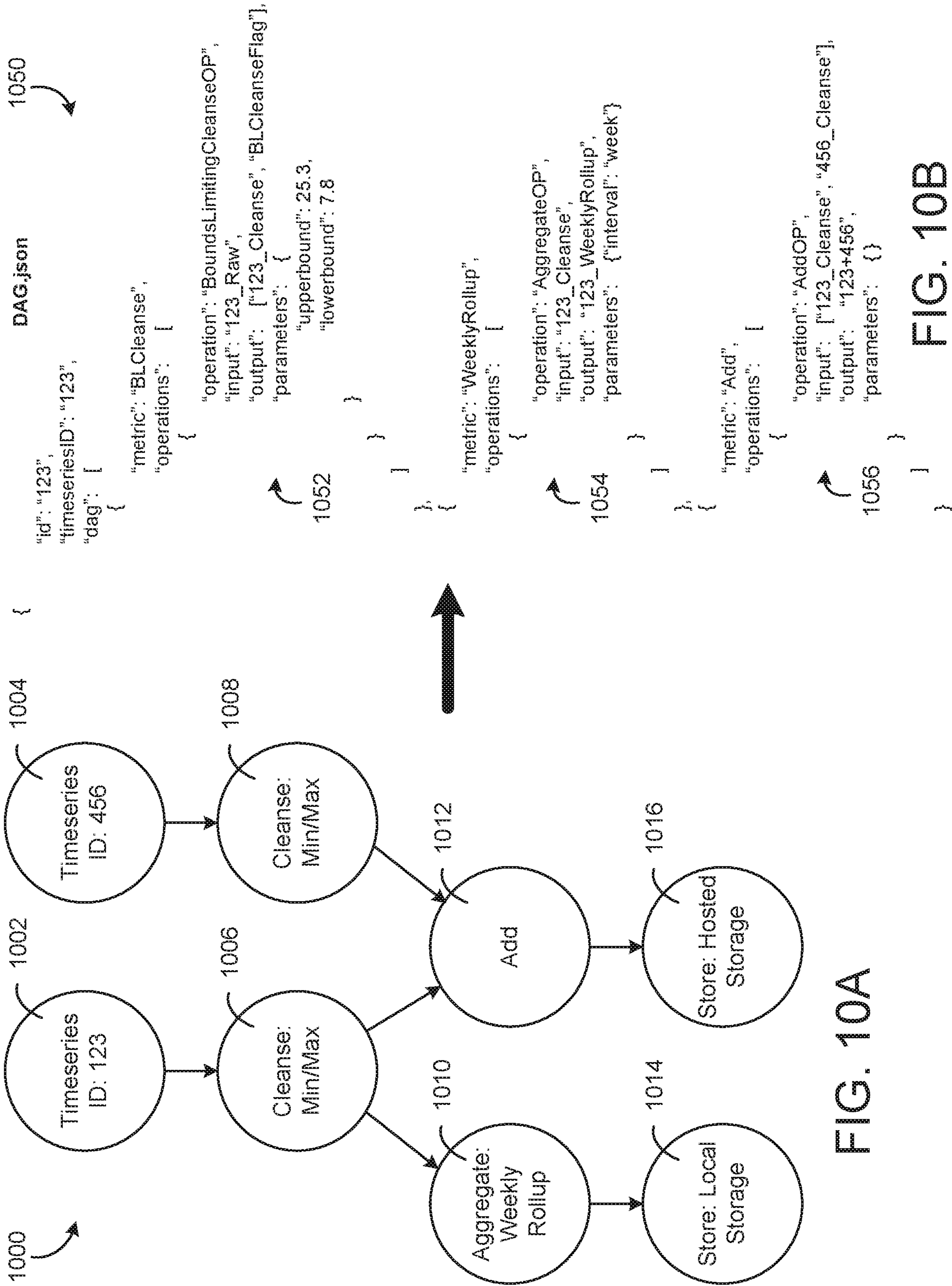
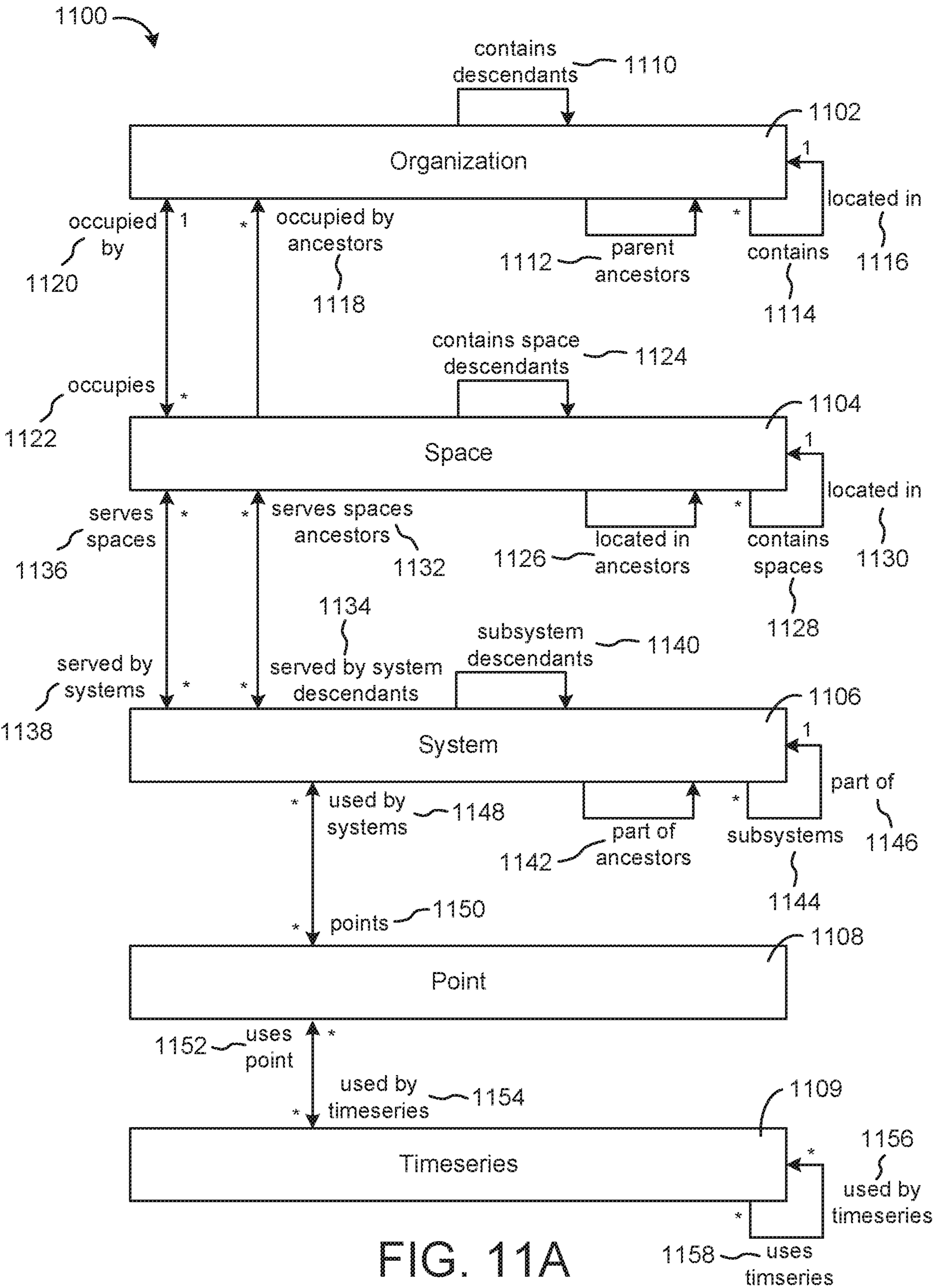


FIG. 9Z



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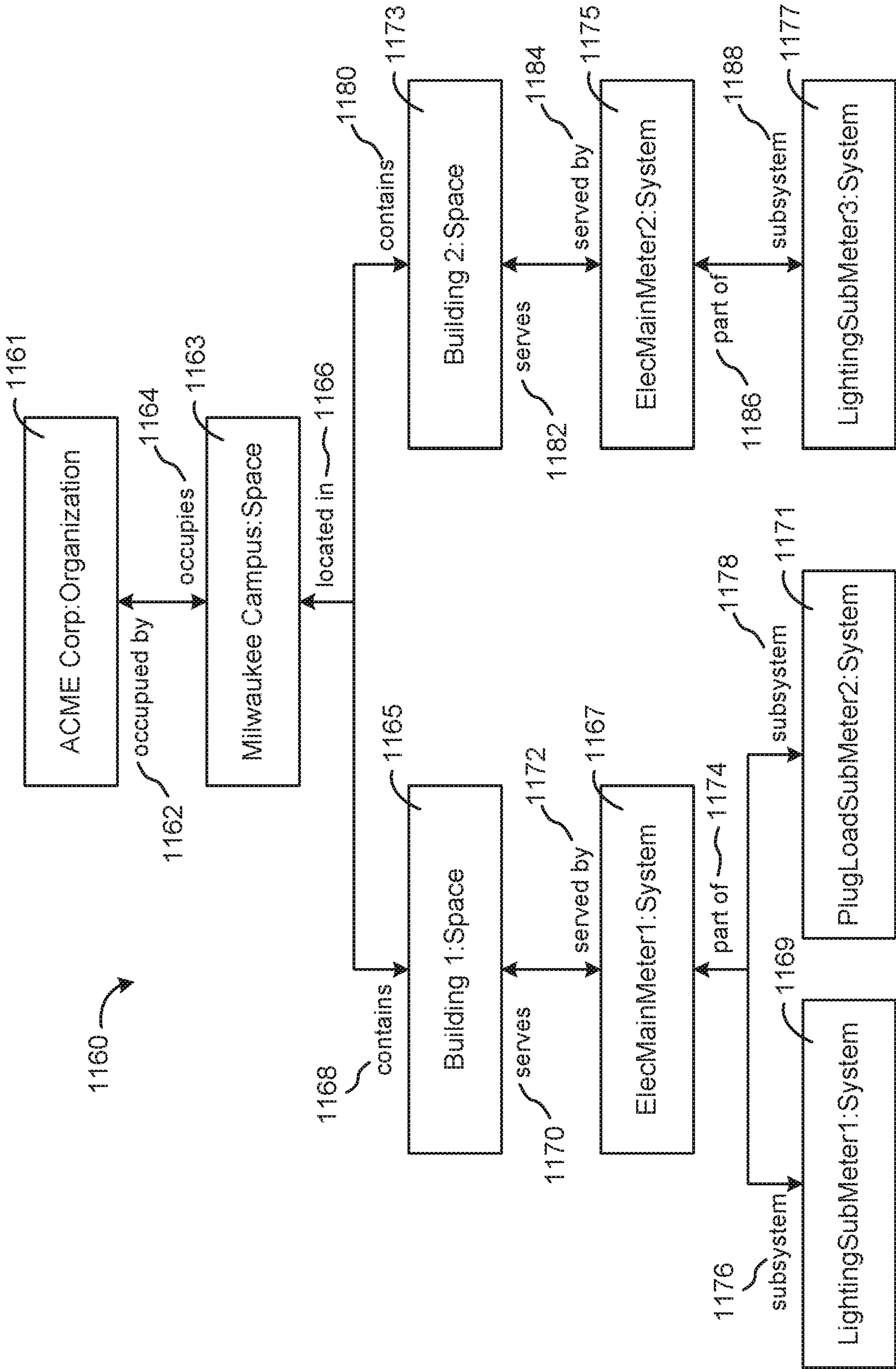


FIG. 11B

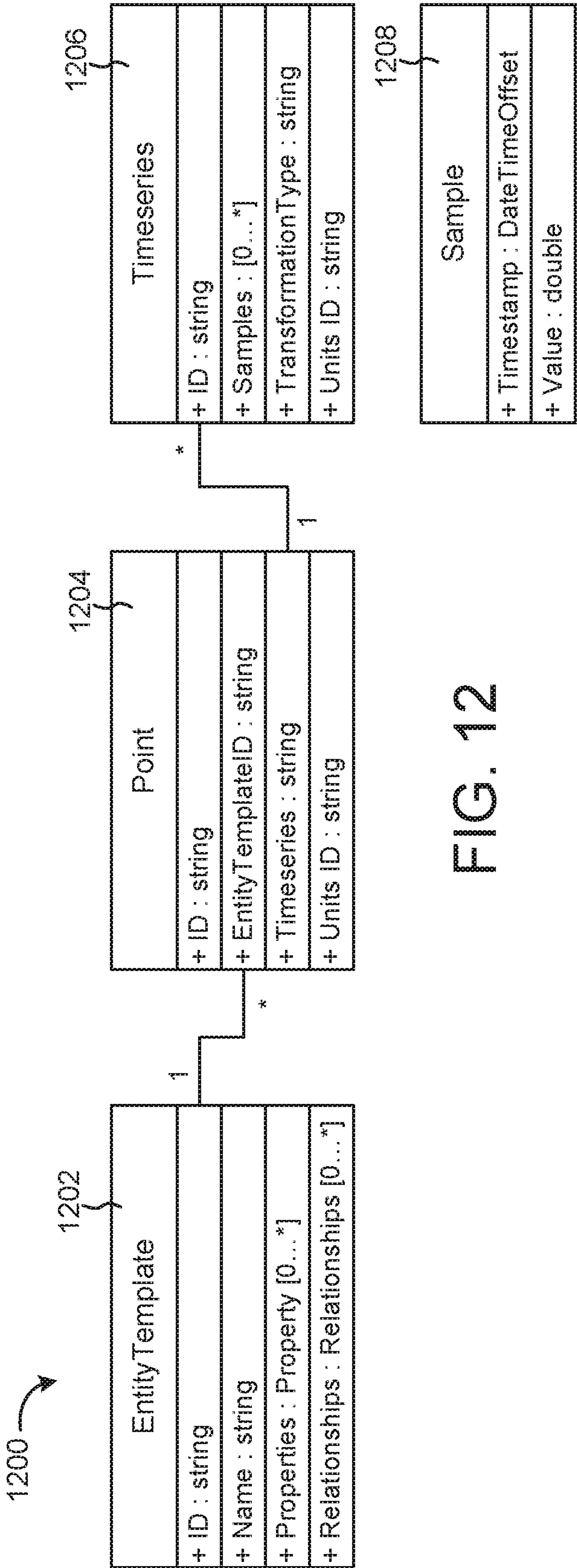


FIG. 12

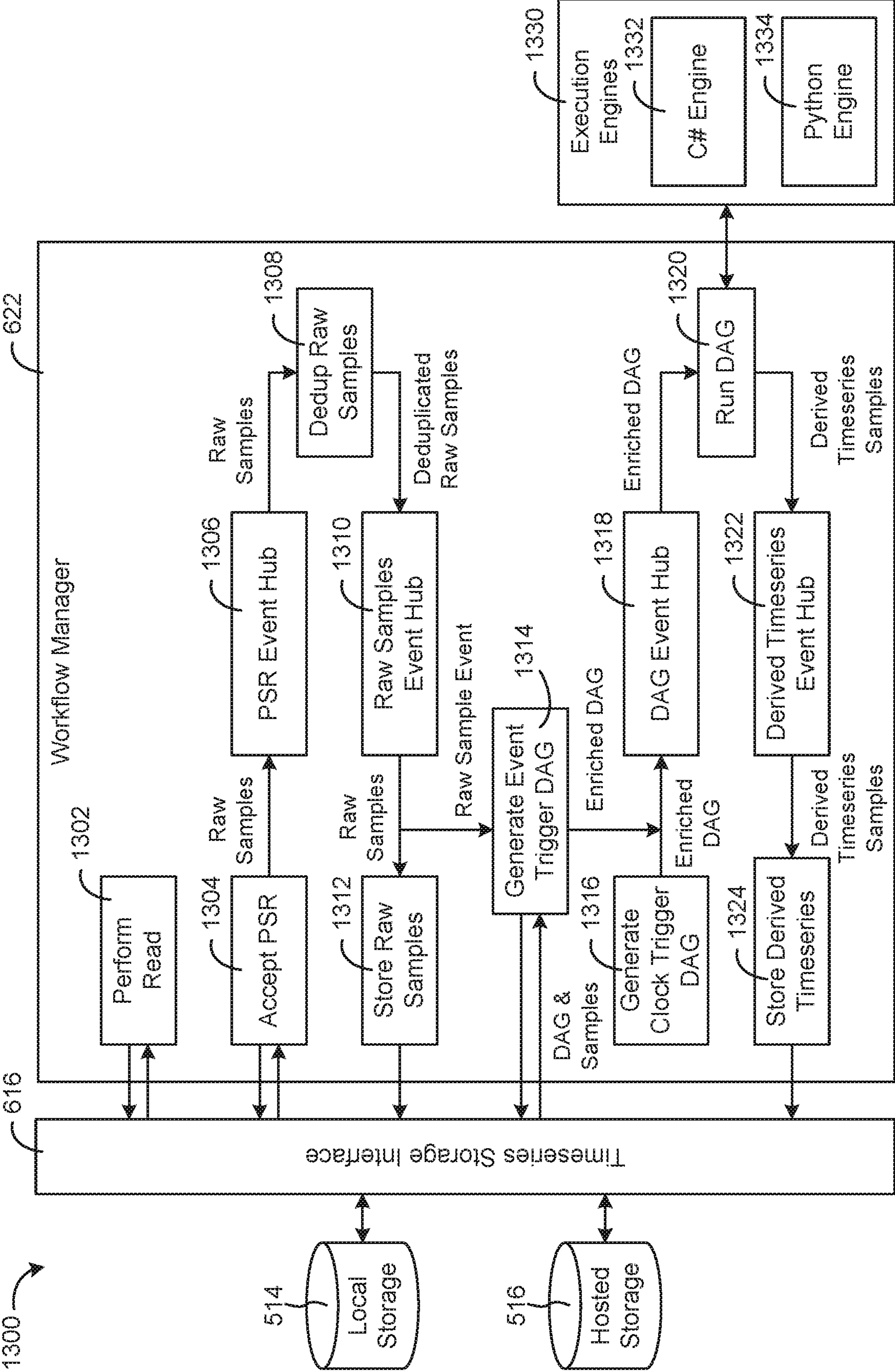


FIG. 13A

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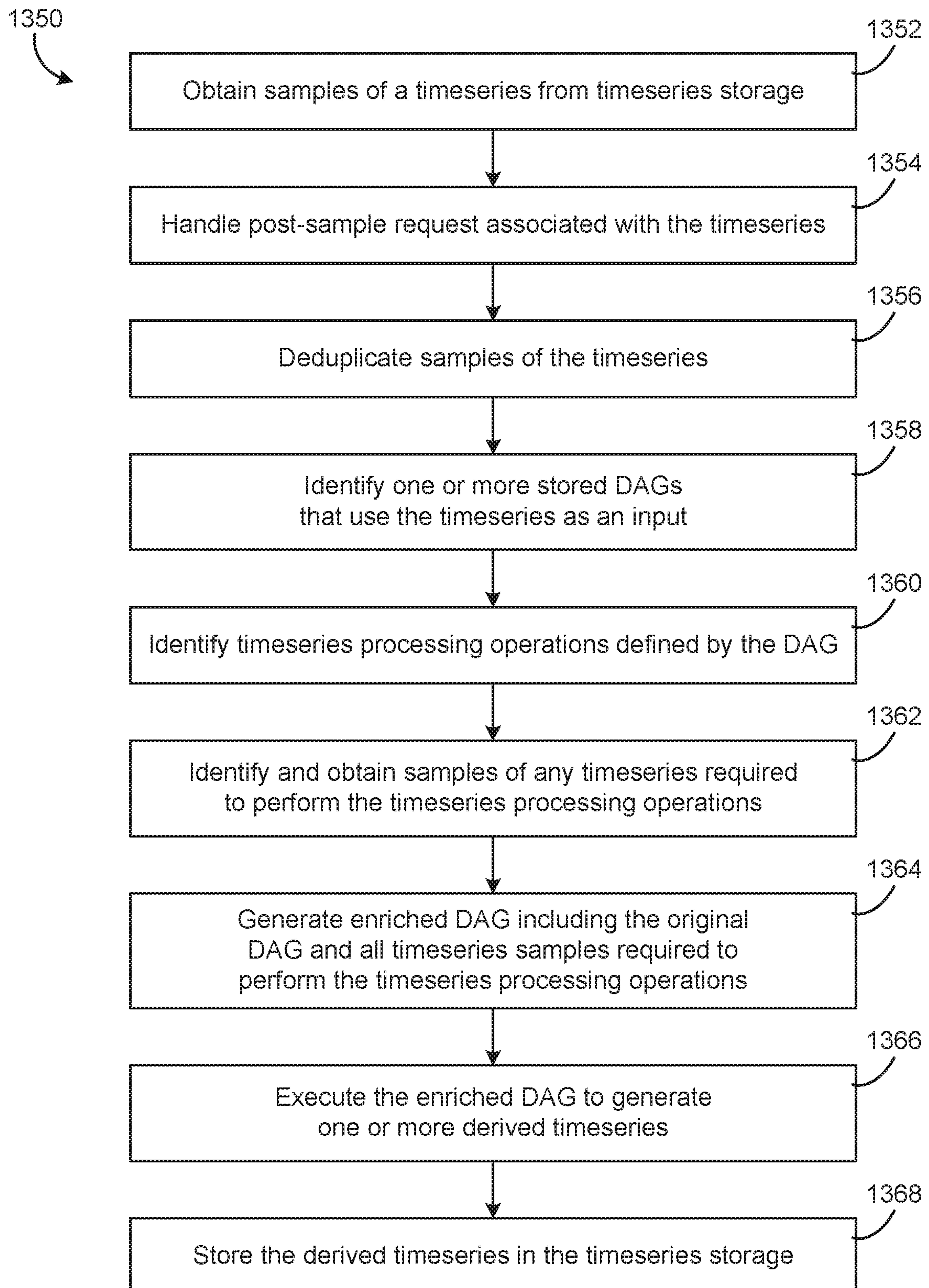


FIG. 13B

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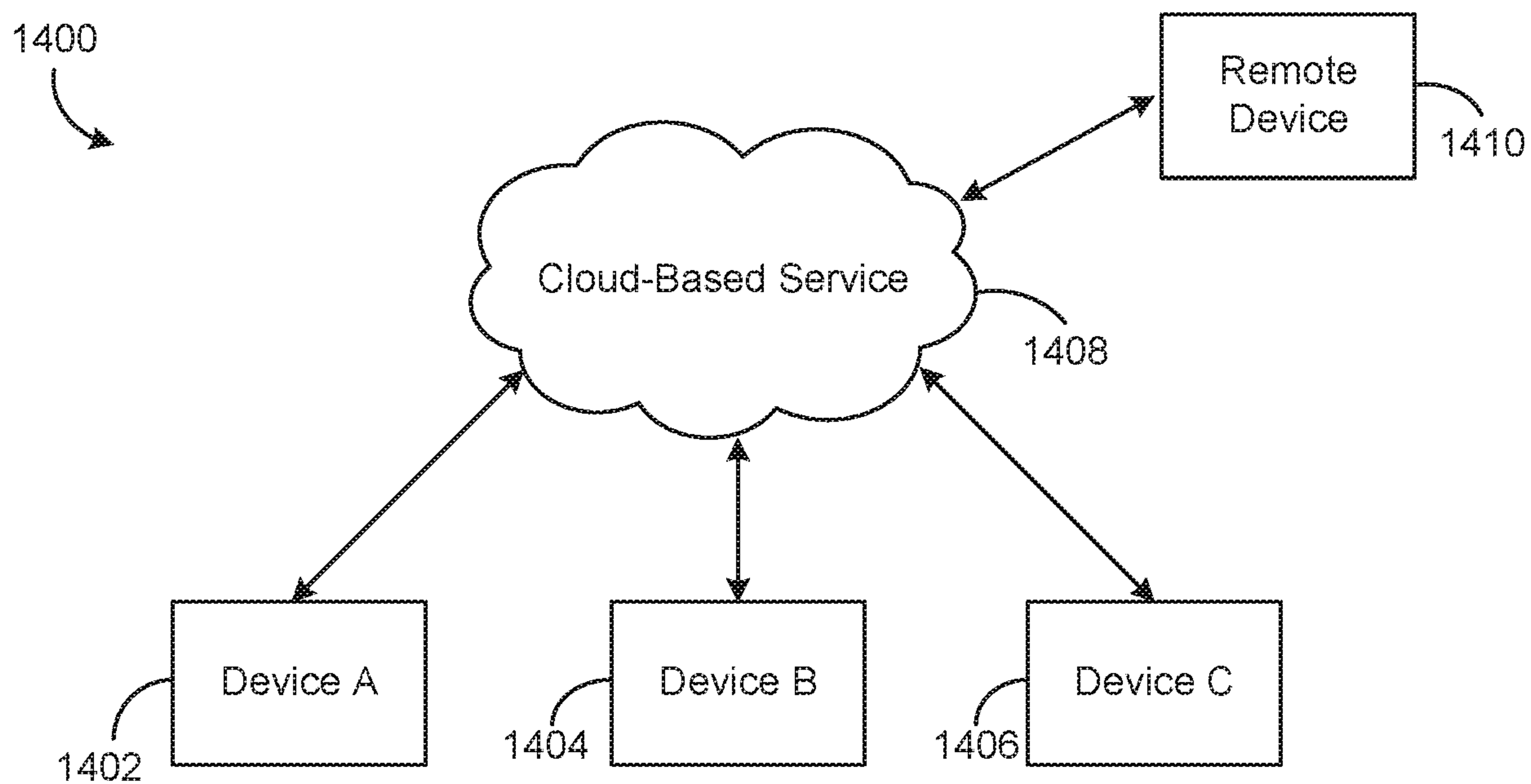


FIG. 14

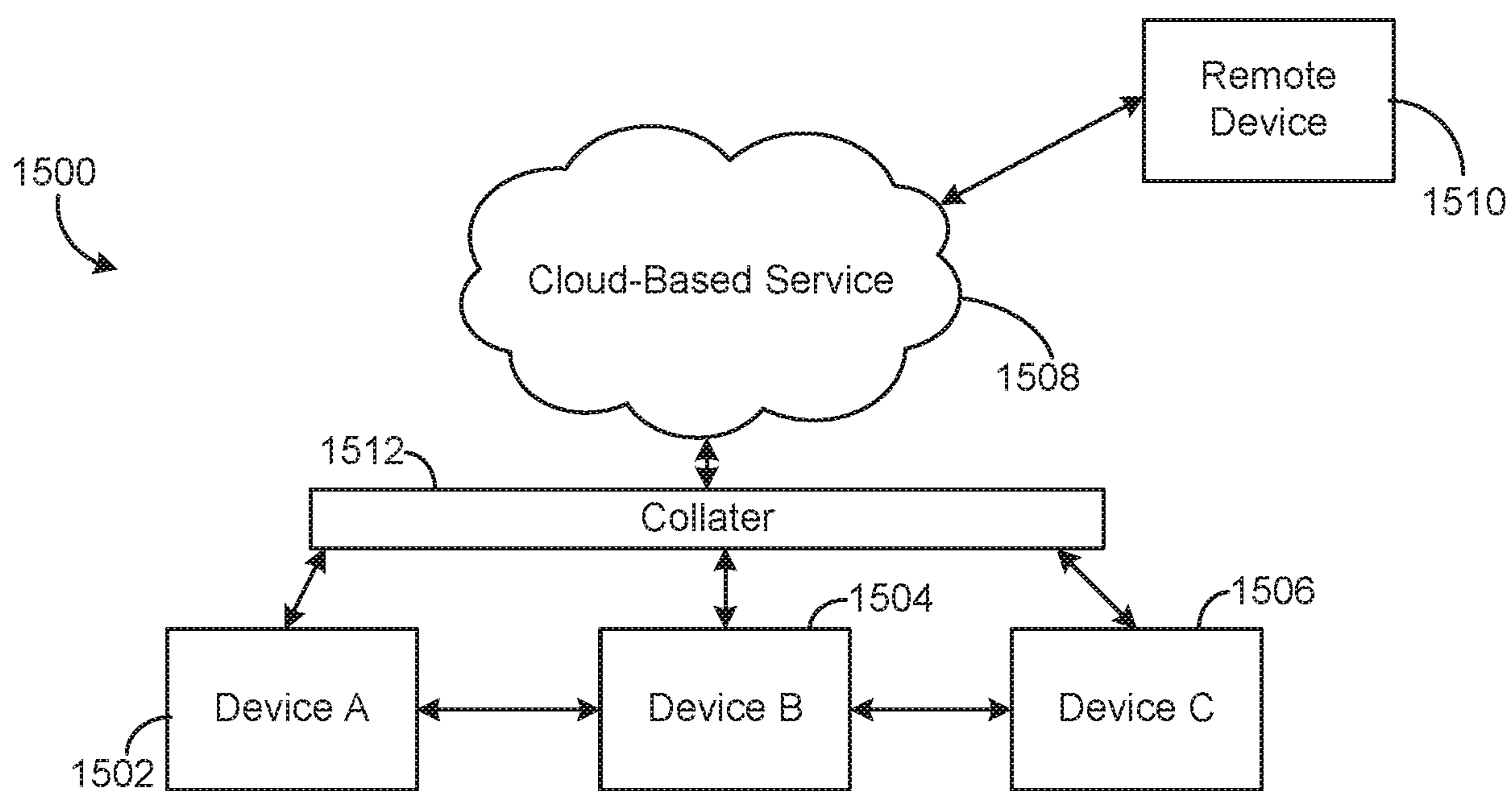


FIG. 15

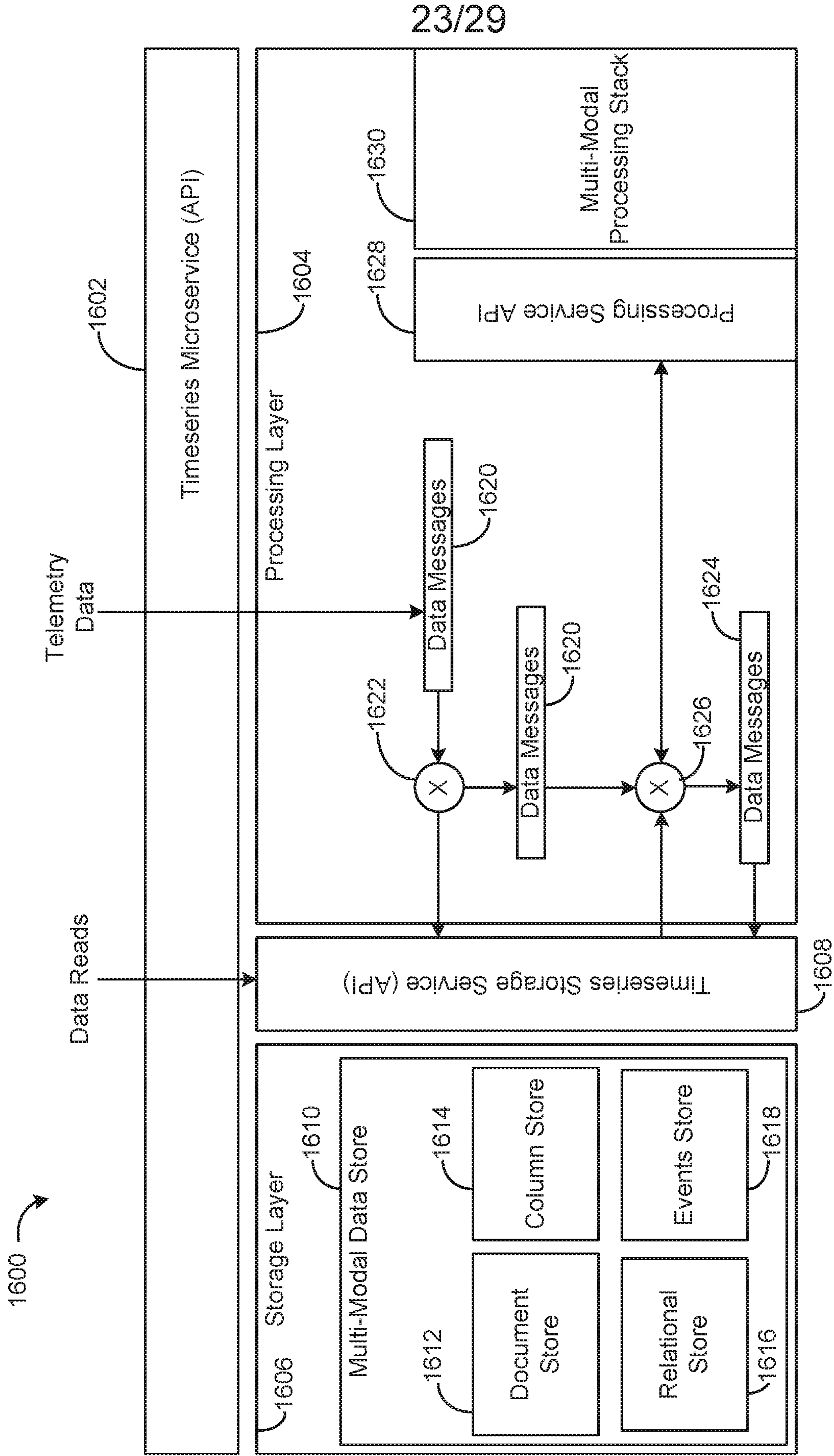


FIG. 16

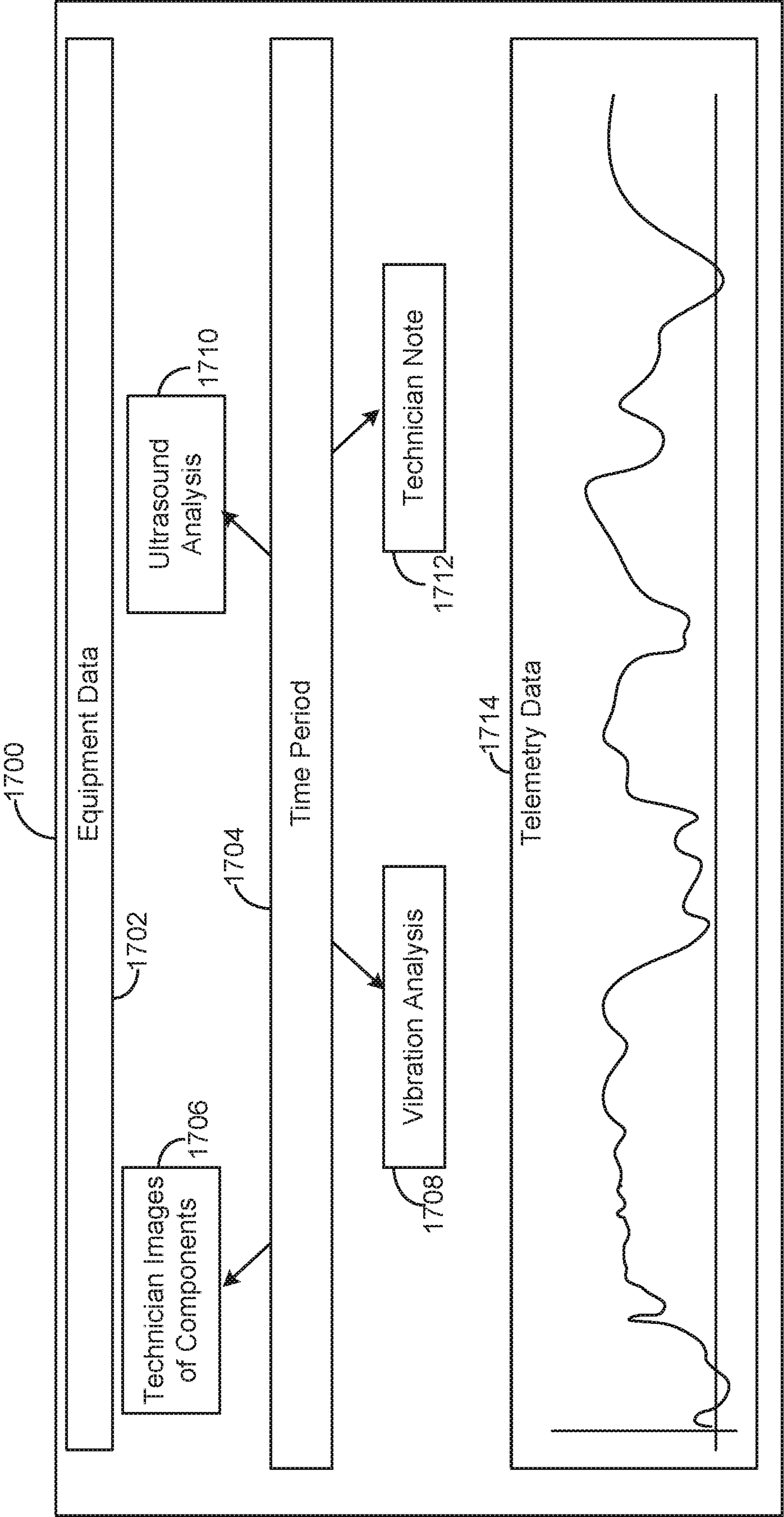


FIG. 17

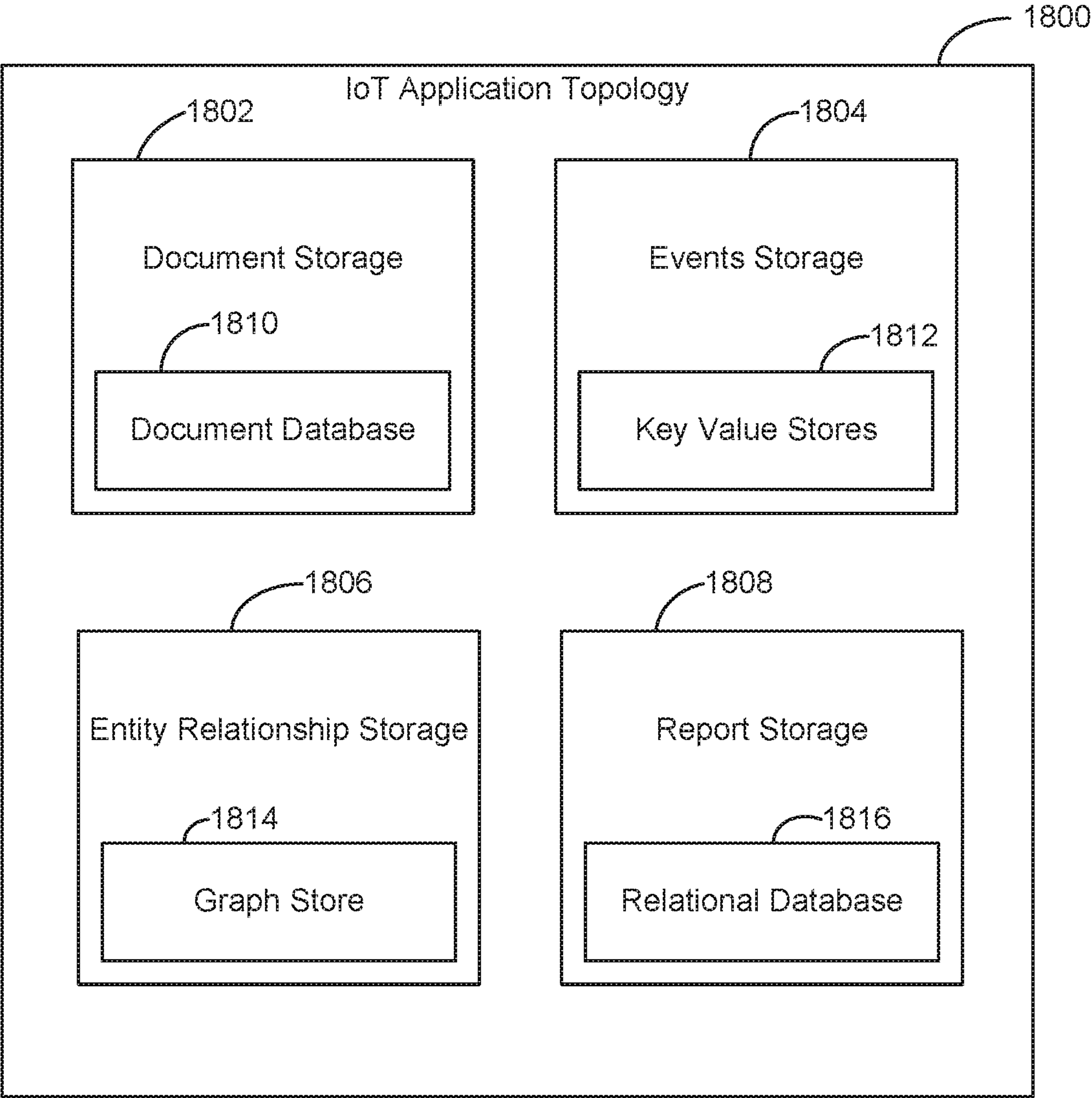


FIG. 18

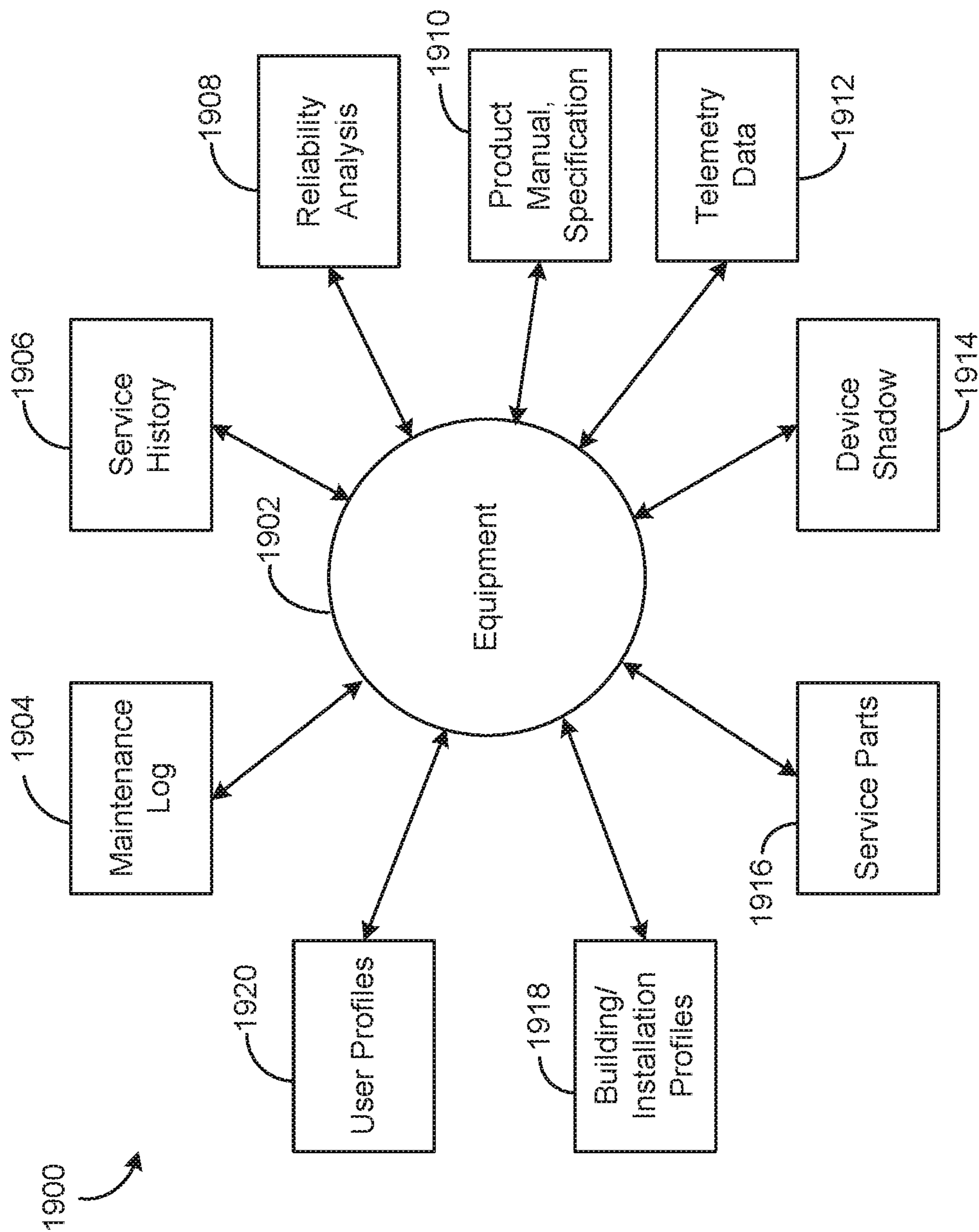


FIG. 19

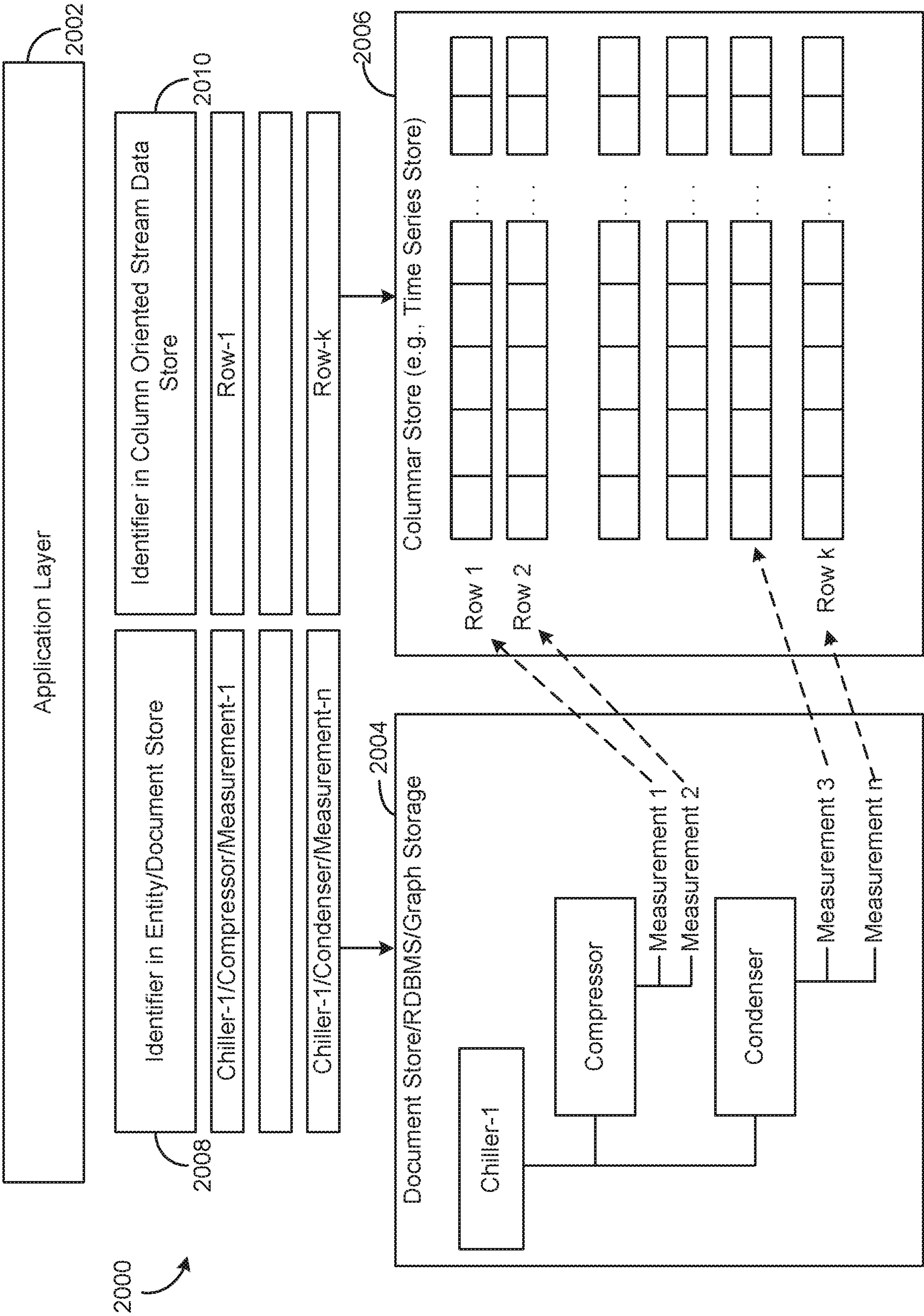


FIG. 20

2100

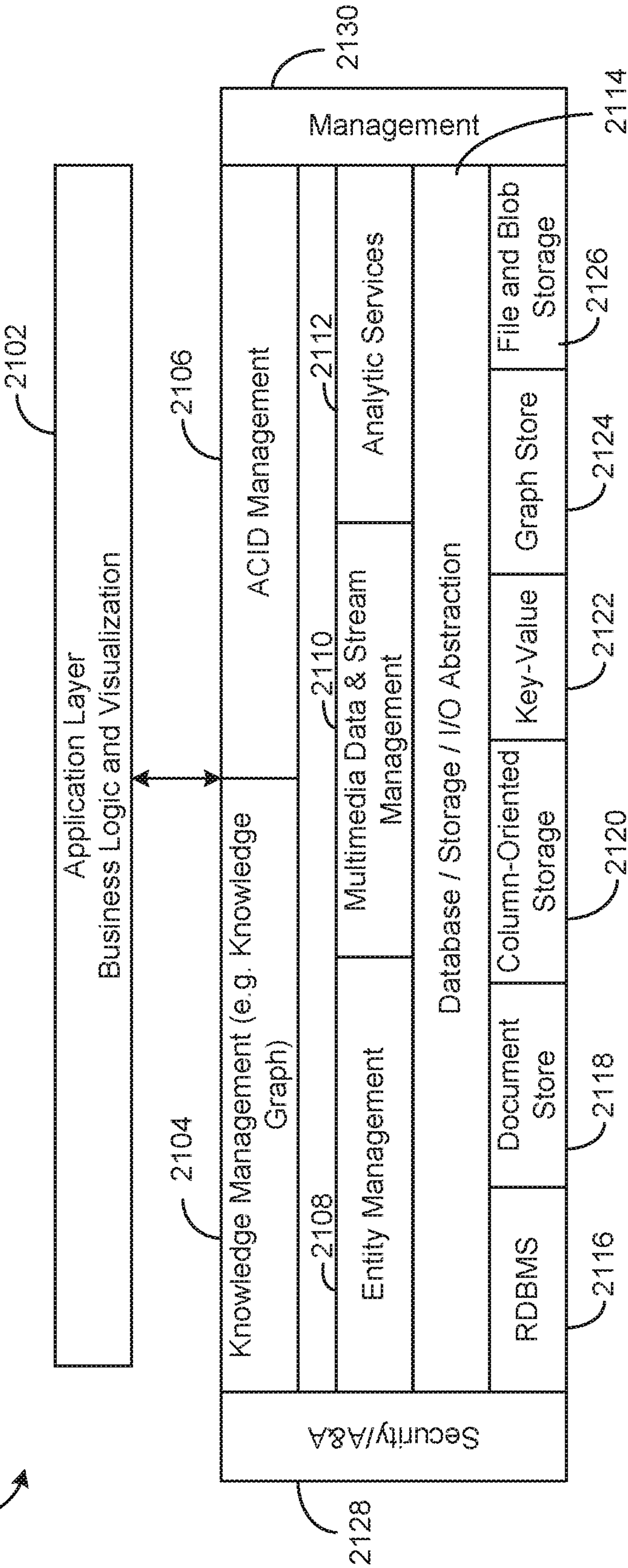


FIG. 21

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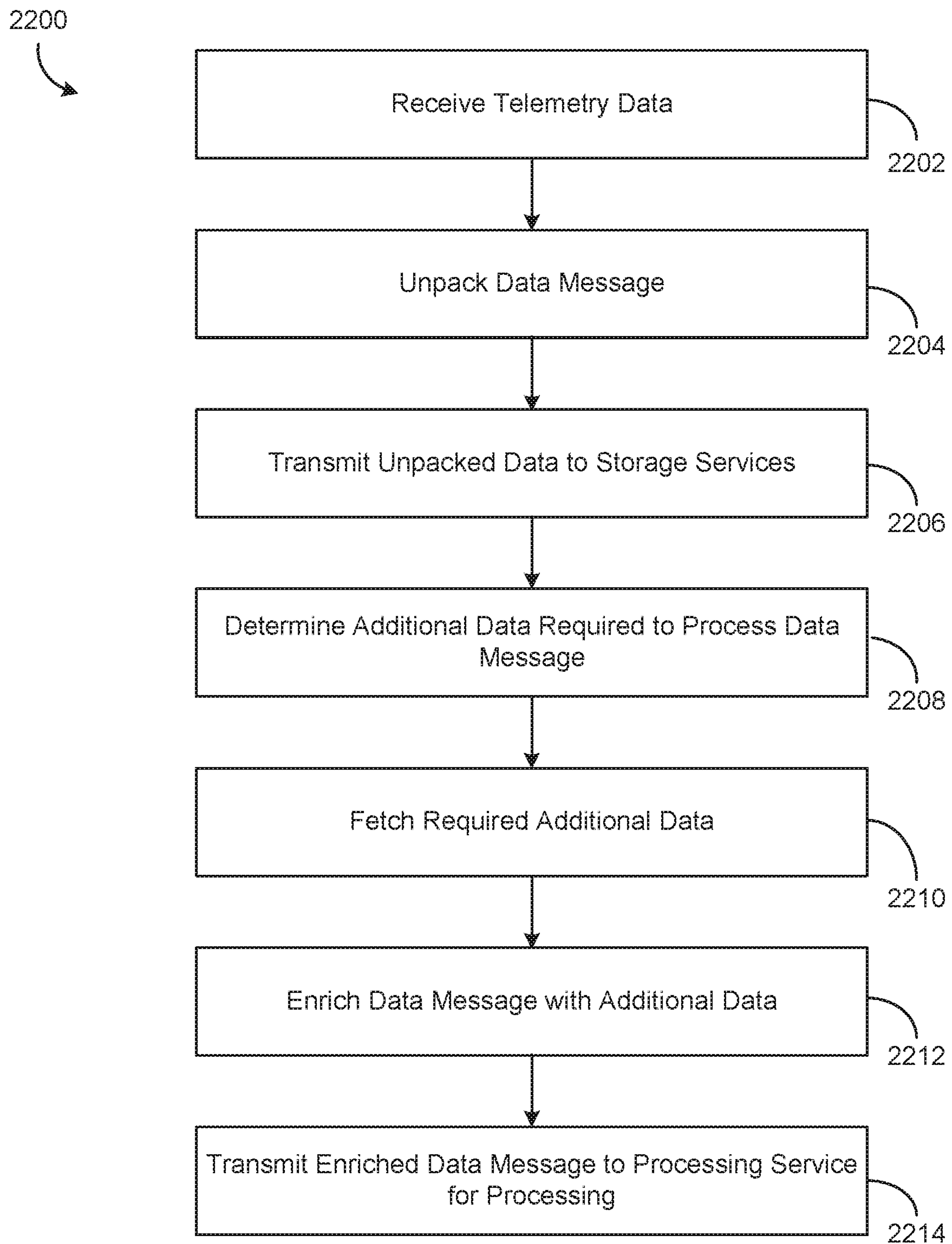


FIG. 22