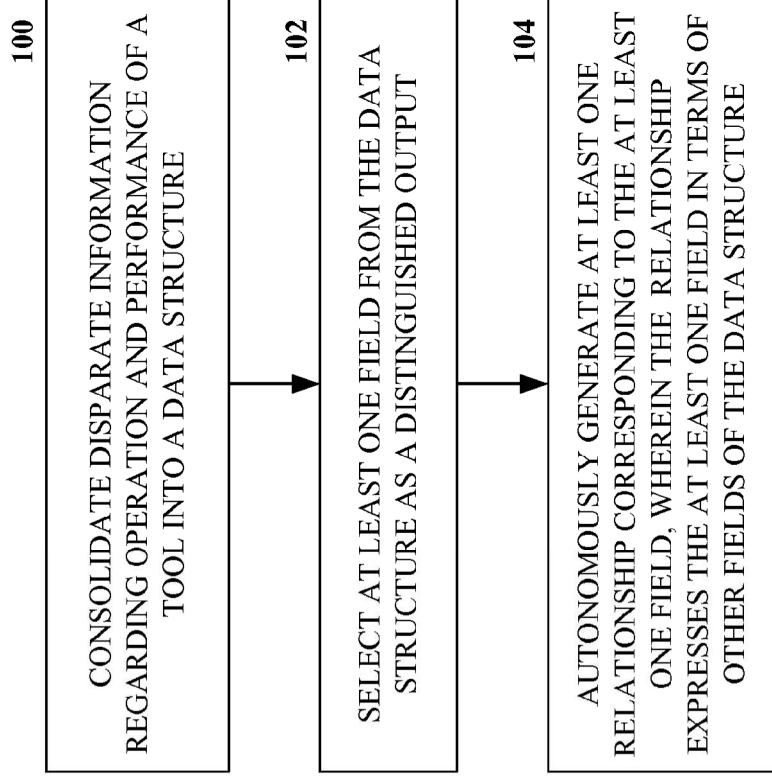


1/15

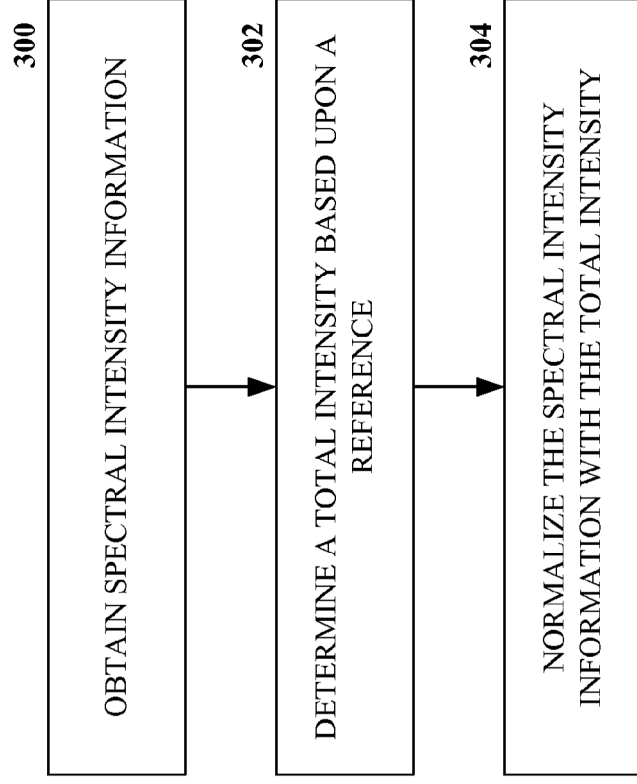
**FIG. 1**

200 ↗
240 ↗

ID Tag(s)				Tool Operation Information				Spectral Intensity Information				Wafer Measurement Information			
WAFFER ID	TIME	PRESSURE		...	I(1)	I(2)	I(N)	FI-CD (1)	FI-CD (2)	...	FI-CD (M)	f _{M1}	f _{M1}	f _{M1}	f _{M1}
ID 1	t ₁	P ₁	P ₂	P ₃	I ₁₁	I ₁₂	I _{1N}	f ₁₁	f ₂₁	f ₂₁	f _{M1}	f ₁₁	f ₁₁	f ₁₁	f _{M1}
ID 1	t ₂	P ₁	P ₂	P ₃	I ₂₁	I ₂₂	I _{2N}	f ₁₁	f ₂₁	f ₂₁	f _{M1}	f ₁₁	f ₁₁	f ₁₁	f _{M1}
ID 1	t ₃	P ₁	P ₂	P ₃	I ₃₁	I ₃₂	I _{3N}	f ₁₁	f ₂₁	f ₂₁	f _{M1}	f ₁₁	f ₁₁	f ₁₁	f _{M1}
ID K	t ₁	P ₁	P ₂	P ₃	I ₁₁	I ₁₂	I _{1N}	f ₁₂	f ₂₂	f ₂₂	f _{M2}	f ₁₂	f ₁₂	f ₁₂	f _{M2}
ID K	t ₂	P ₁	P ₂	P ₃	I ₂₁	I ₂₂	I _{2N}	f ₁₂	f ₂₂	f ₂₂	f _{M2}	f ₁₂	f ₁₂	f ₁₂	f _{M2}
ID K	t ₃	P ₁	P ₂	P ₃	I ₃₁	I ₃₂	I _{3N}	f ₁₂	f ₂₂	f ₂₂	f _{M2}	f ₁₂	f ₁₂	f ₁₂	f _{M2}

FIG. 2

3/15

**FIG. 3**

4/15

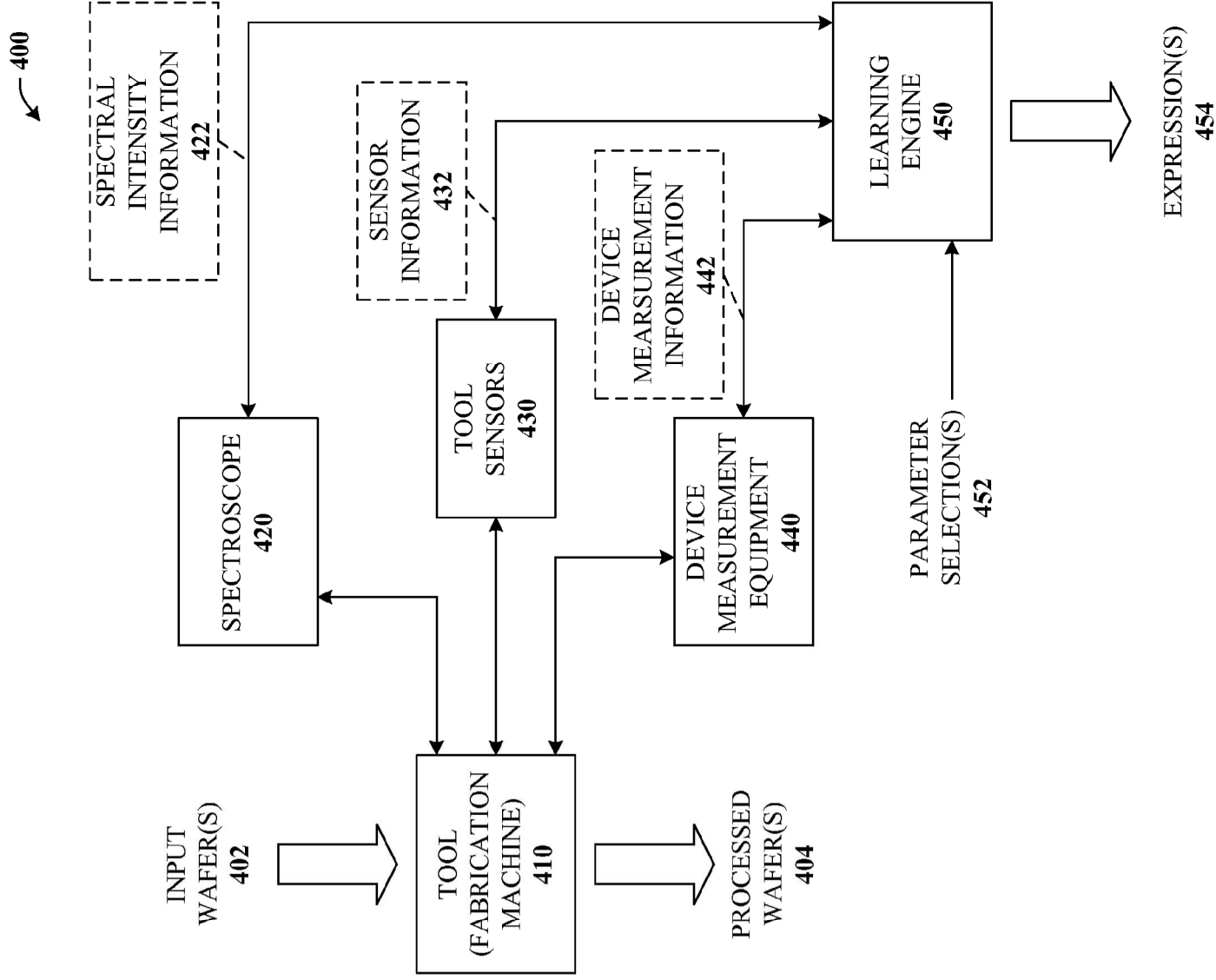


FIG. 4

5/15

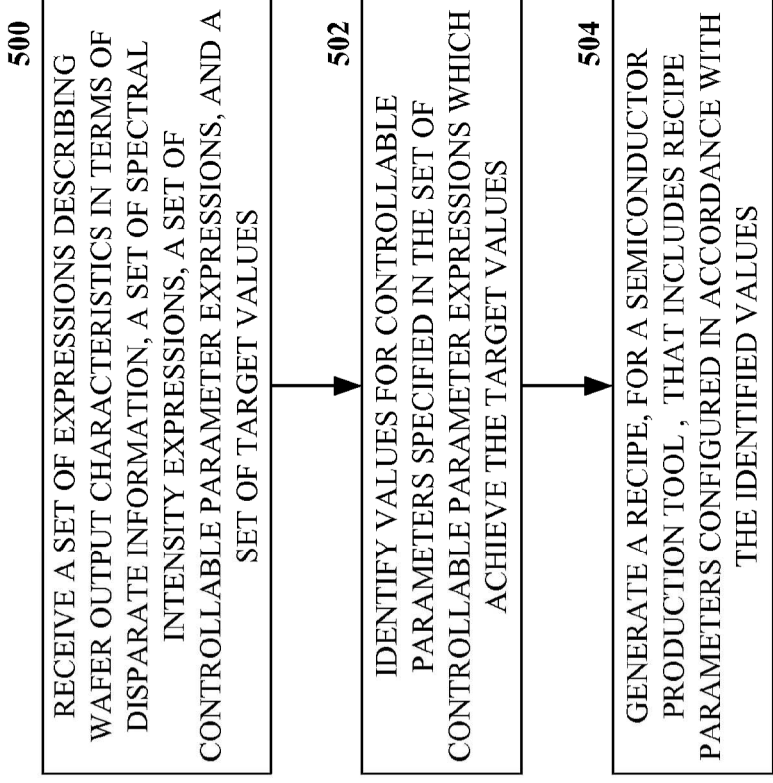


FIG. 5

6/15

600

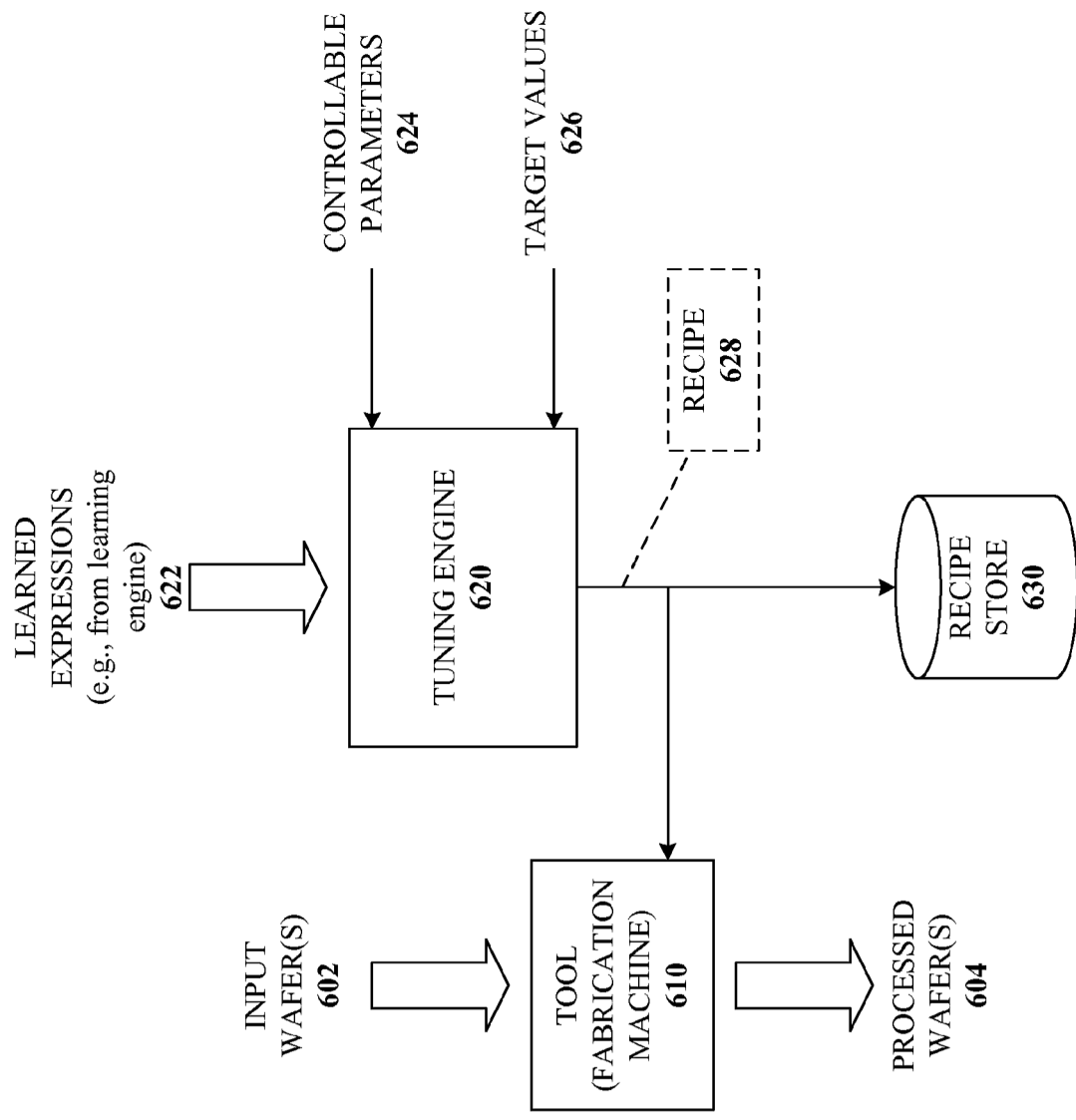


FIG. 6

7/15

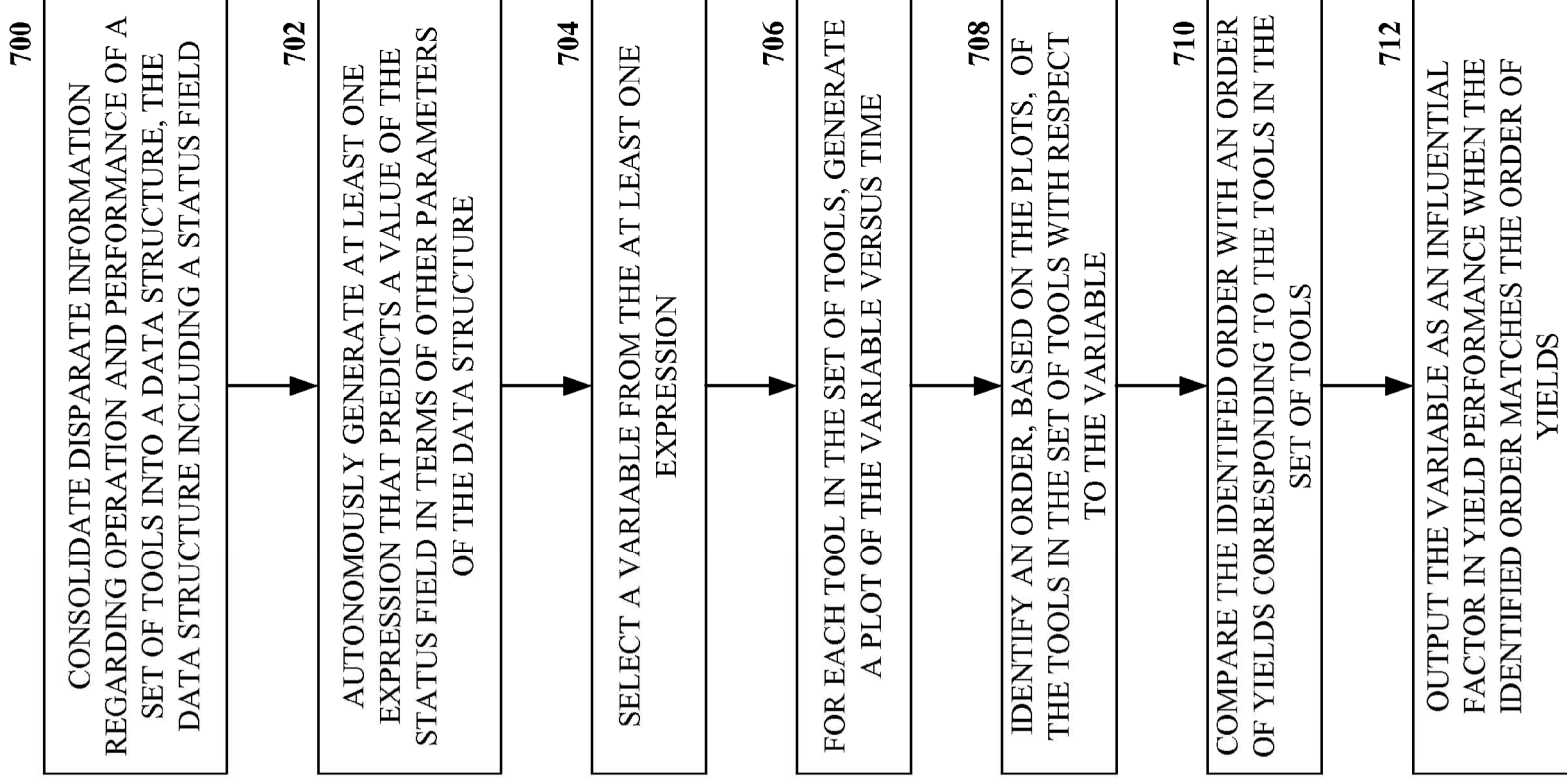


FIG. 7

8/15

800

ID Tags			Spectroscopic Data				
WAFER ID	EQUIP. ID	TIME	I(l ₁)	I(l ₂)	...	I(l _N)	STATUS
ID 1	CH4	t ₁	I ₁₁	I ₁₂		I _{1N}	1
ID 1	CH4	t ₂	I ₂₁	I ₂₂	.	I _{2N}	1
ID 1	CH4	t ₃	I ₃₁	I ₃₂		I _{3N}	1
.	.	.	.	.	.	.	.
ID K	CH1	t ₁	I ₁₁	I ₁₂		I _{1N}	0
ID K	CH1	t ₂	I ₂₁	I ₂₂	.	I _{2N}	0
ID K	CH1	t ₃	I ₃₁	I ₃₂		I _{3N}	0
.	.	.	.	.	.	.	.

850

ID Tags			Sensor Data		Spectroscopic Data			
WAFER ID	EQUIP. ID	TIME	PRESSURE	I(l ₁)	I(l ₂)	...	I(l _N)	STATUS
ID 1	CH4	t ₁	P ₁	I ₁₁	I ₁₂		I _{1N}	1
ID 1	CH4	t ₂	P ₂	I ₂₁	I ₂₂	.	I _{2N}	1
ID 1	CH4	t ₃	P ₃	I ₃₁	I ₃₂		I _{3N}	1
.	.	.	.	.	.	.	.	.
ID K	CH1	t ₁	P ₁	I ₁₁	I ₁₂		I _{1N}	0
ID K	CH1	t ₂	P ₂	I ₂₁	I ₂₂	.	I _{2N}	0
ID K	CH1	t ₃	P ₃	I ₃₁	I ₃₂		I _{3N}	0
.	.	.	.	.	.	.	.	.

FIG. 8

9/15

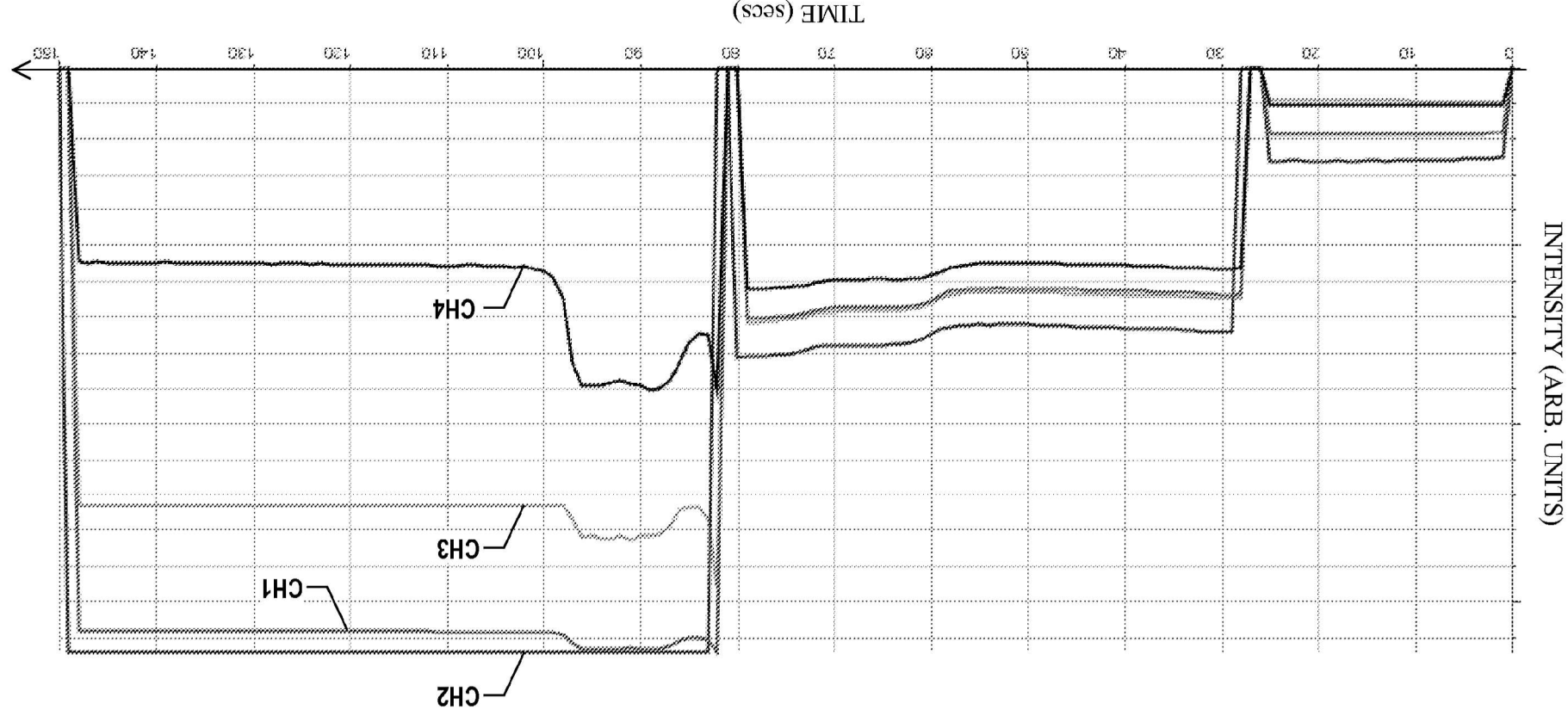


FIG. 9

10/15

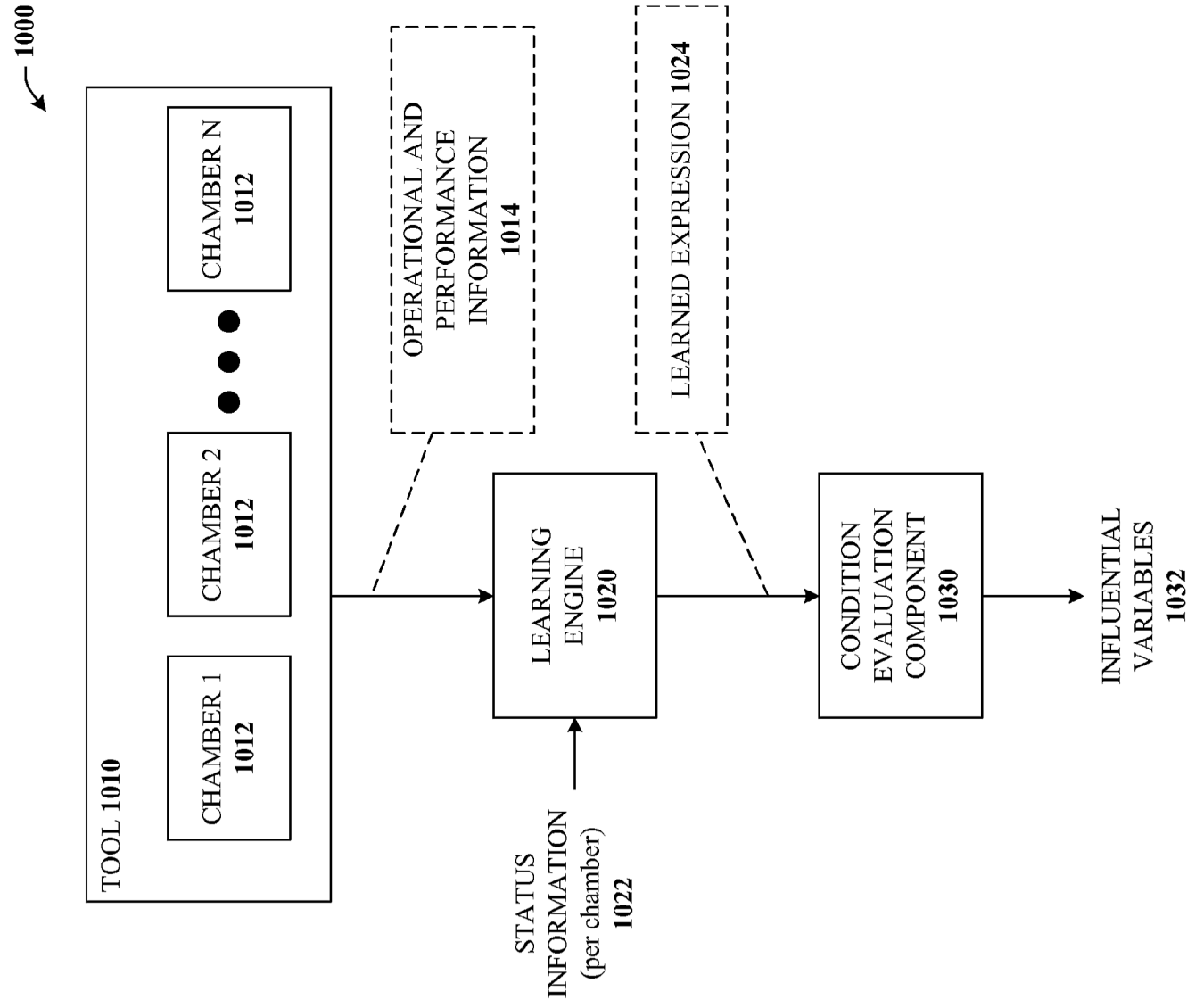
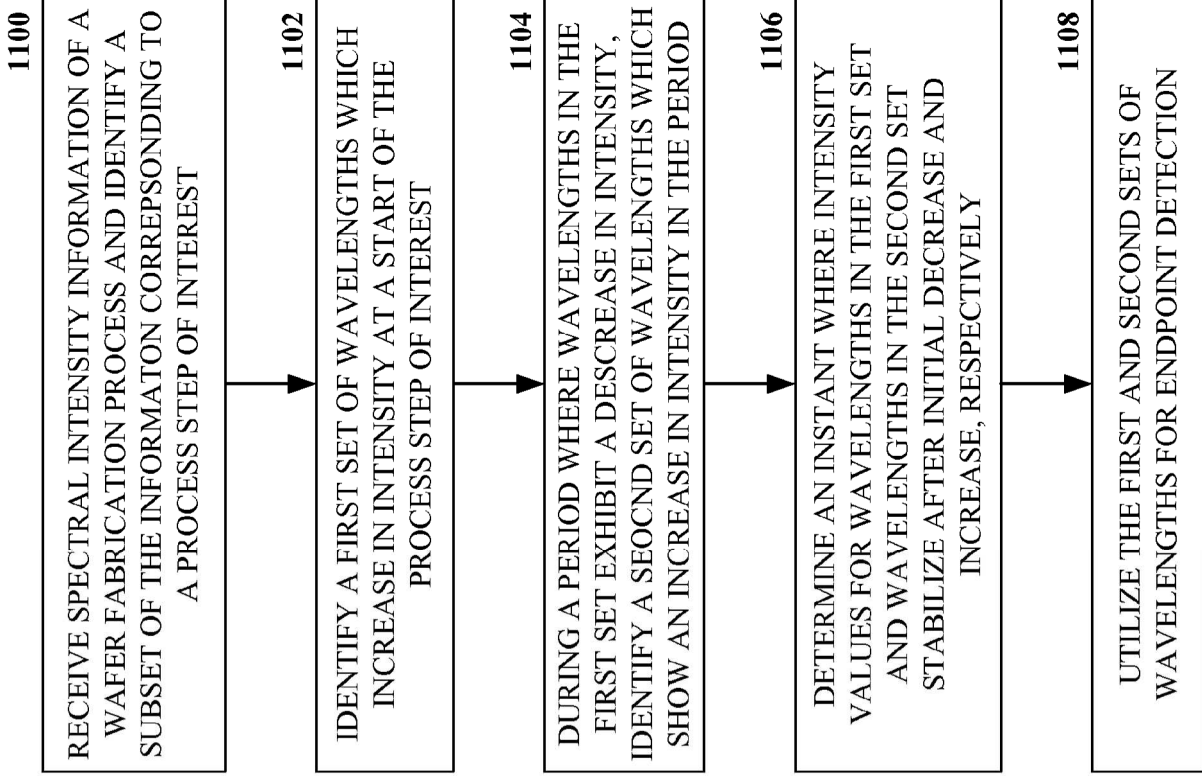


FIG. 10

11/15

**FIG. 11**

12/15

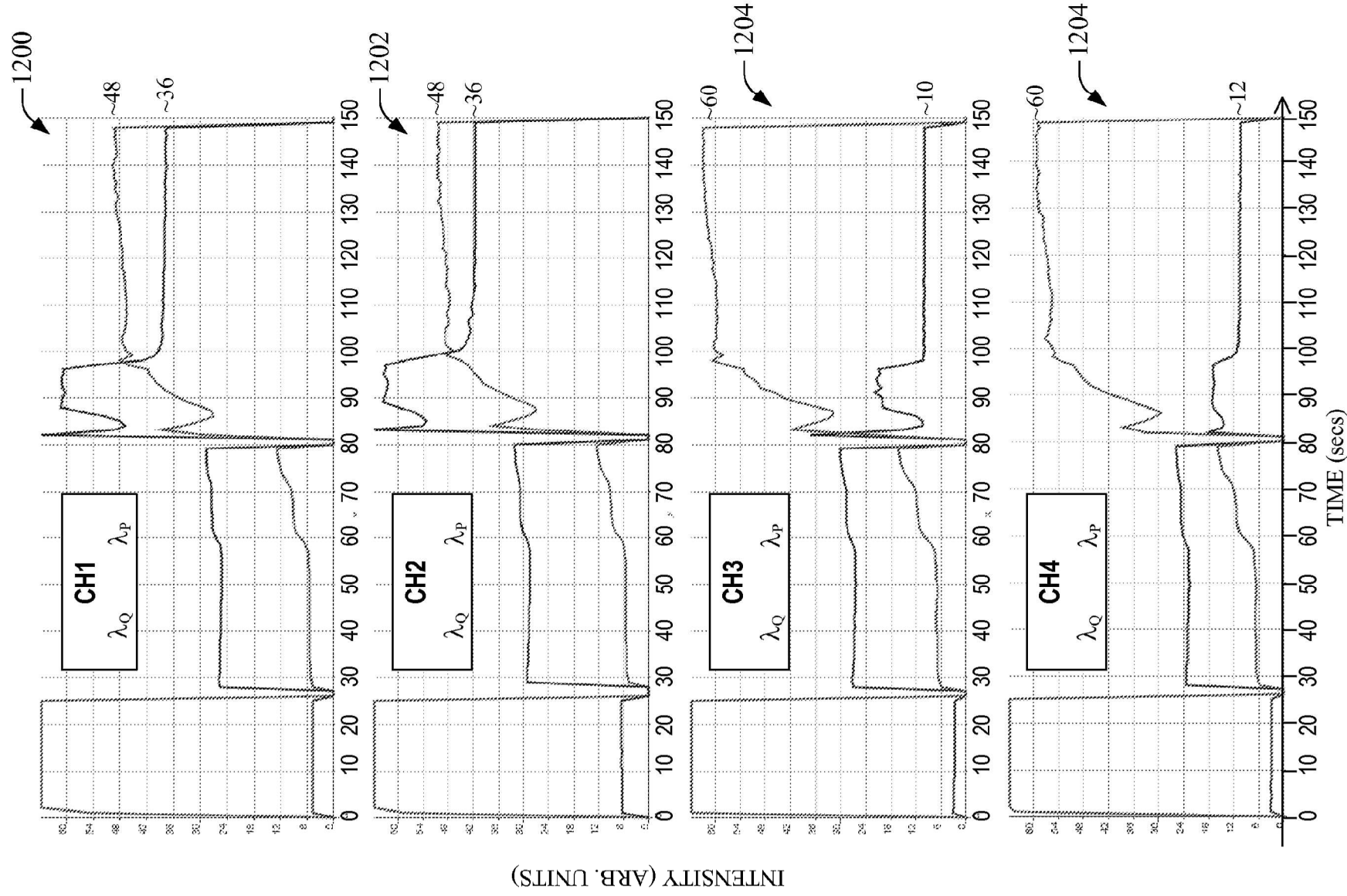


FIG. 12

13/15

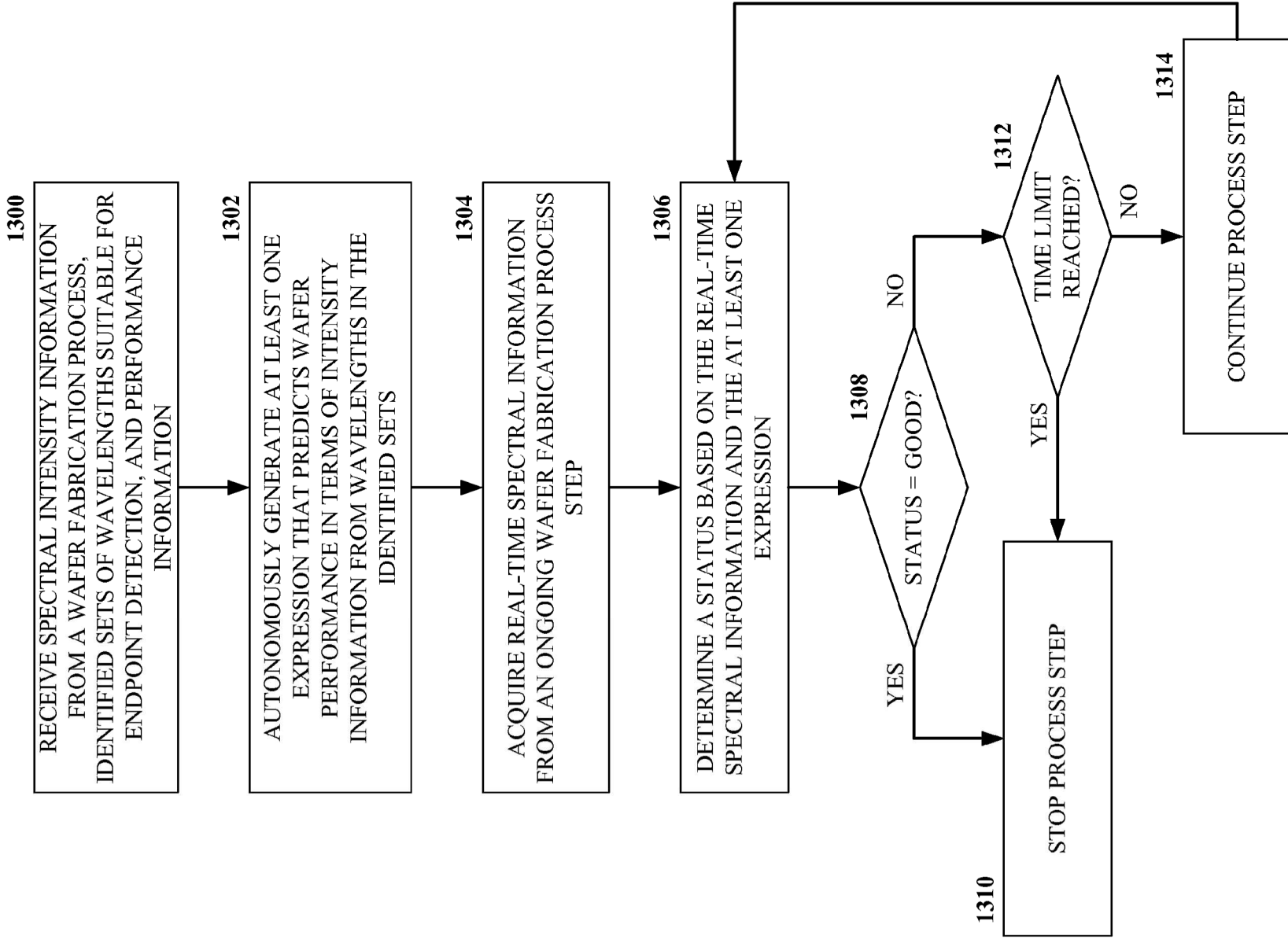


FIG. 13

14/15

Spectral Intensity
Informatoin

WAFER ID	TIME	I(I _p)	I(I _Q)	...	STATUS
ID 1	t ₁	I _{1p}	I _{1Q}		0
ID 1	t ₂	I _{2p}	I _{2Q}	.	0
ID 1	t ₃	I _{3p}	I _{3Q}	.	0
.	.	.	.	.	.
ID 1	t _R	I _{Rp}	I _{1Q}		1
ID 1	t _{R+1}	I _{(R+1)p}	I _{2Q}	.	1
ID 1	t _{R+2}	I _{(R+2)p}	I _{3Q}	.	1
.	.	.	.	.	.
ID K	t ₁	I _{1p}	I _{1Q}		0
ID K	t ₂	I _{2p}	I _{2Q}		0
ID K	t ₃	I _{3p}	I _{3Q}		0
.	.	.	.		.

1400

FIG. 14

15/15

1500

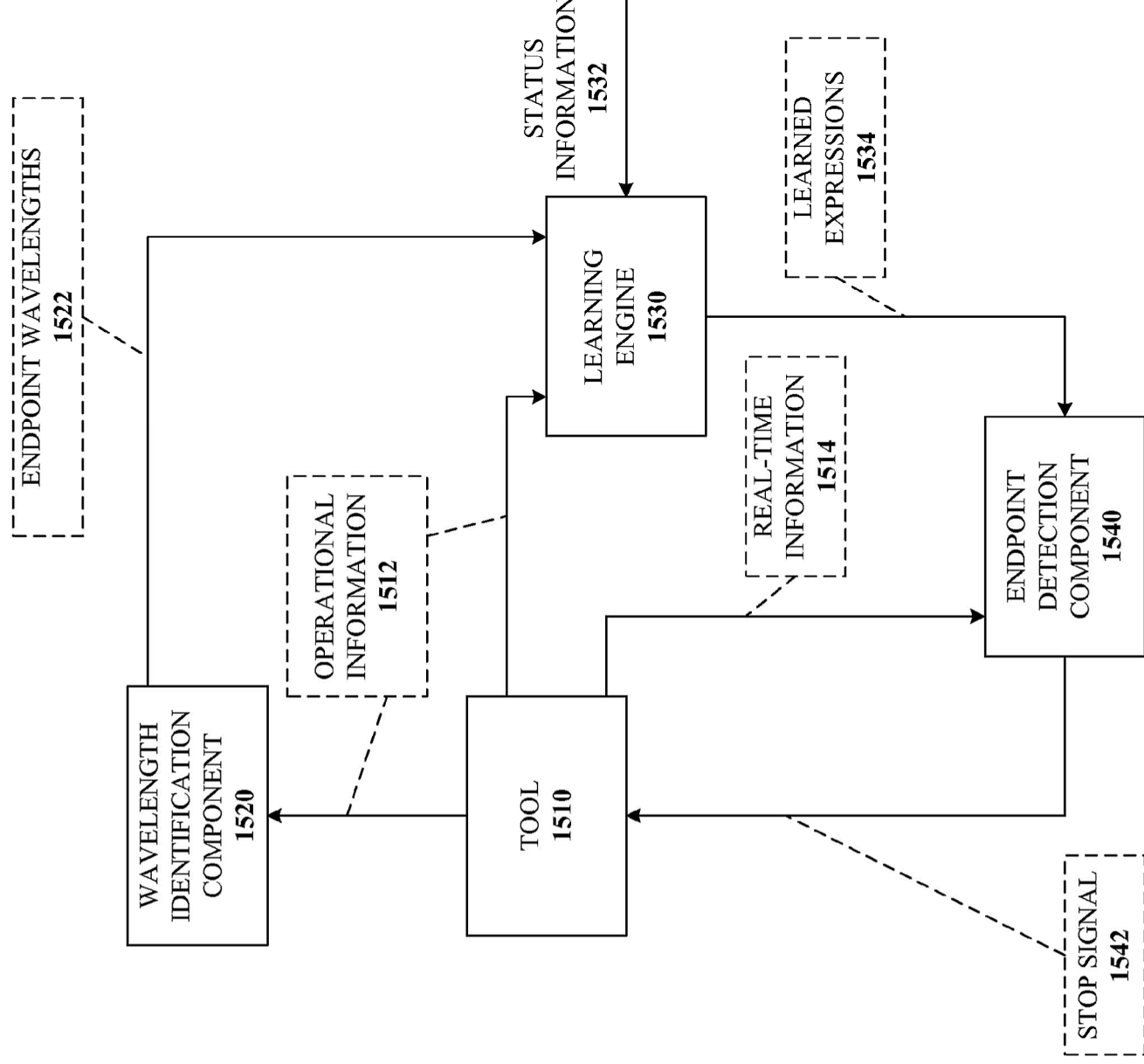


FIG. 15