

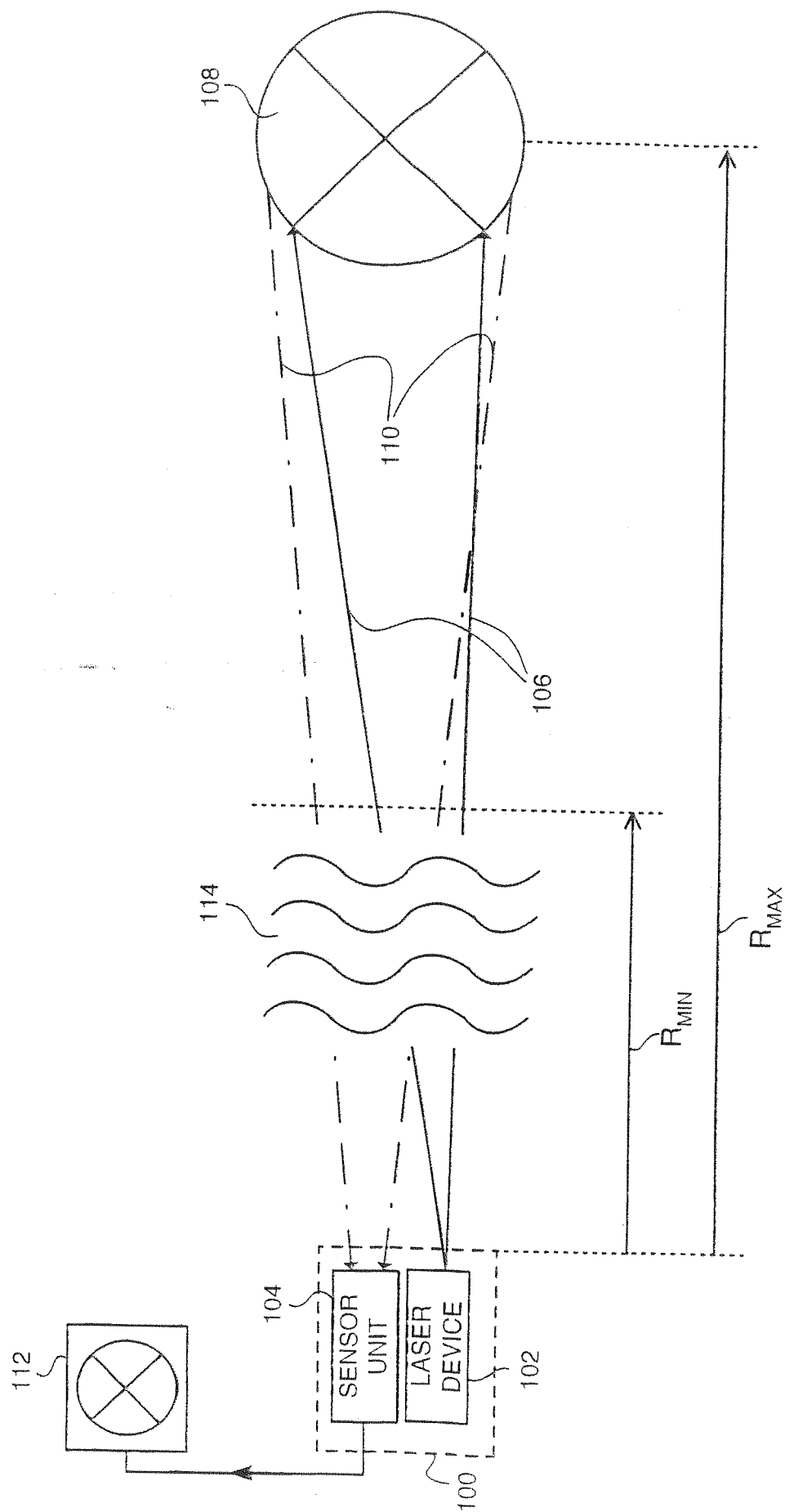


FIG. 1

2/17

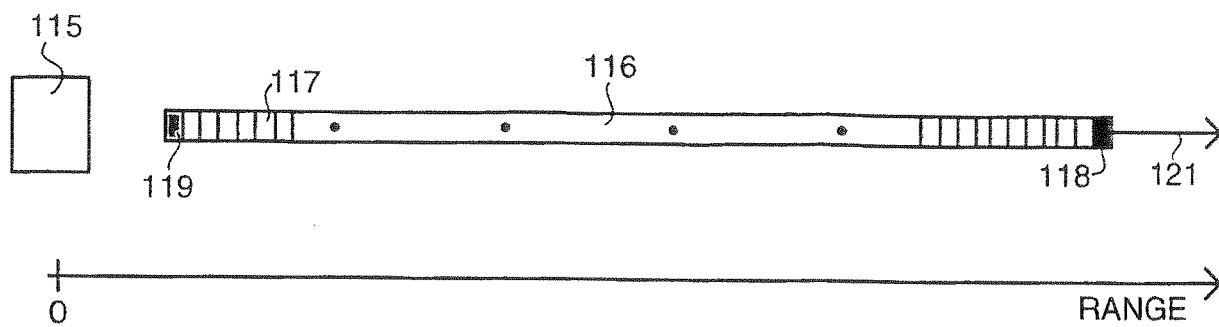


FIG. 2A

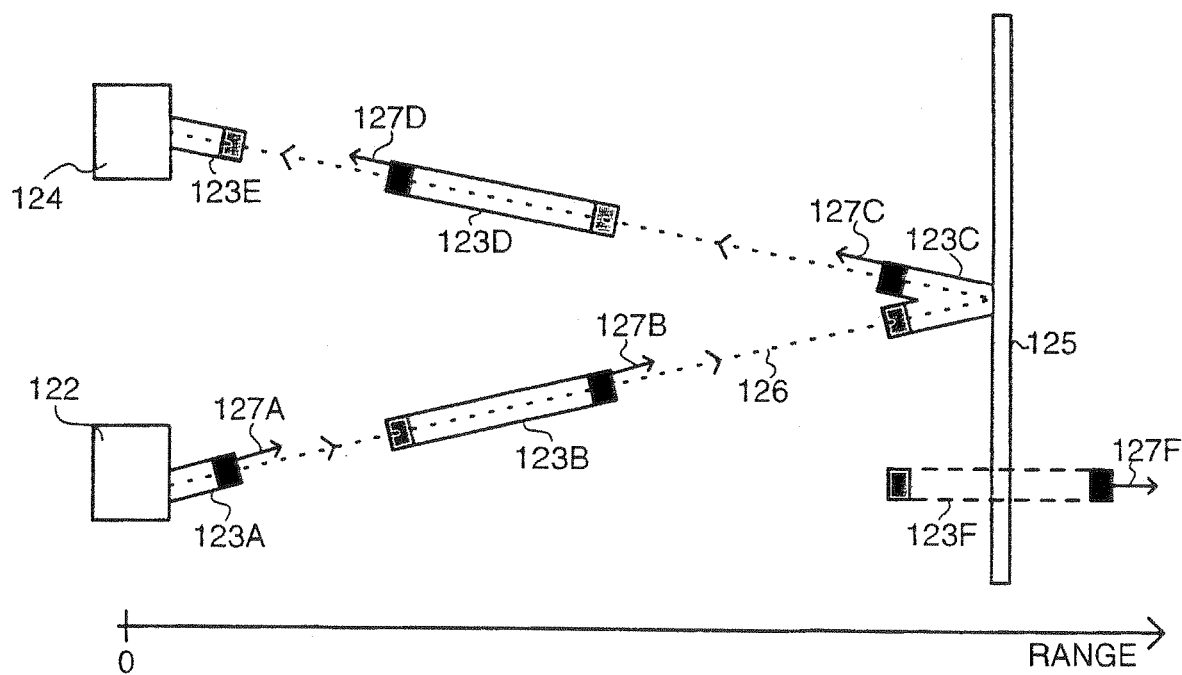


FIG. 2B

3/17

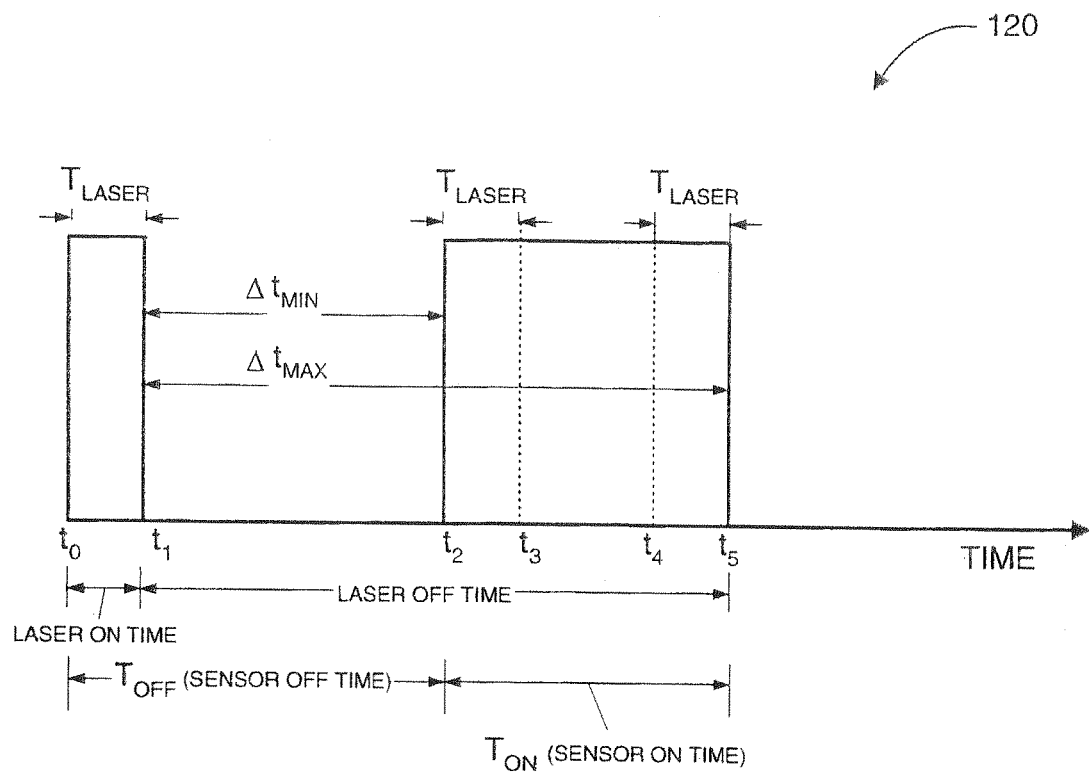


FIG. 3

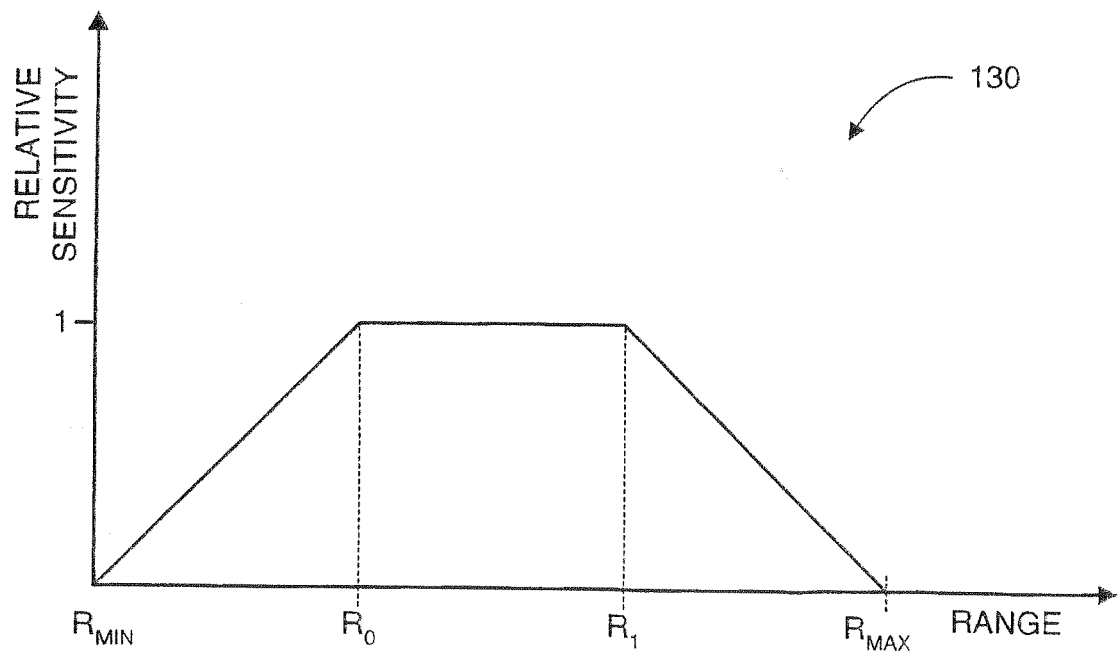


FIG. 4

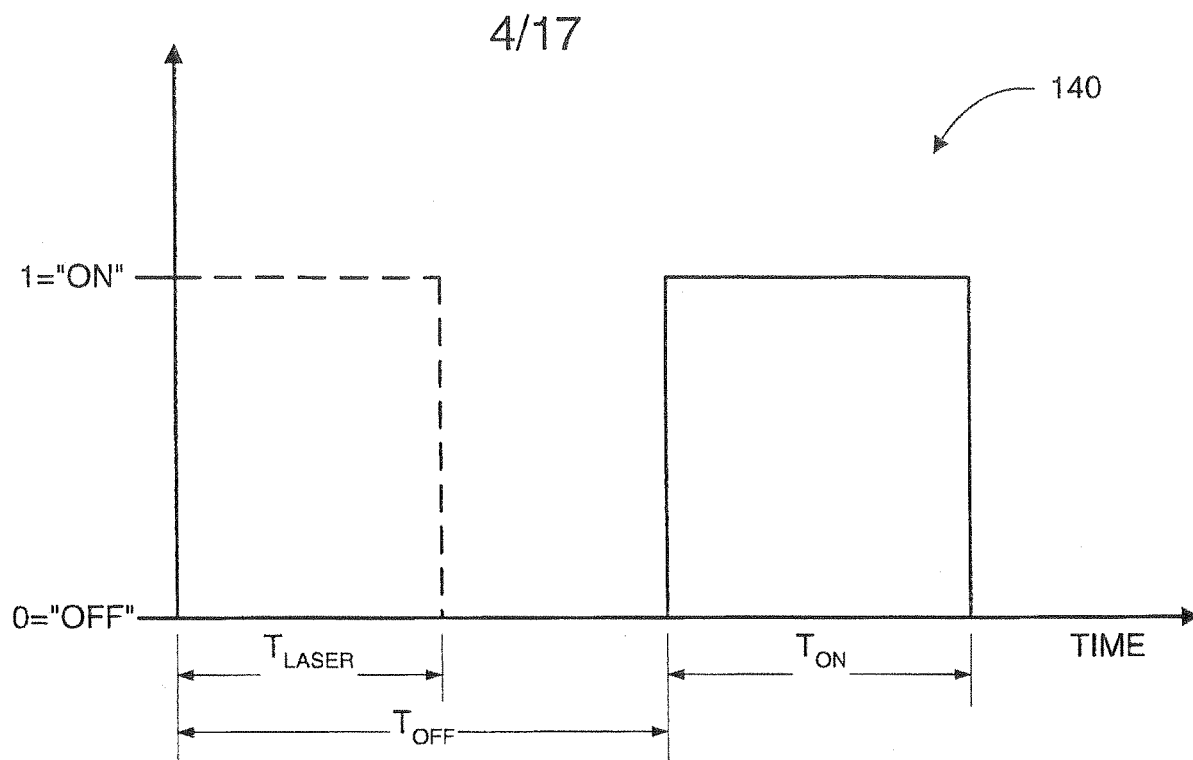


FIG. 5

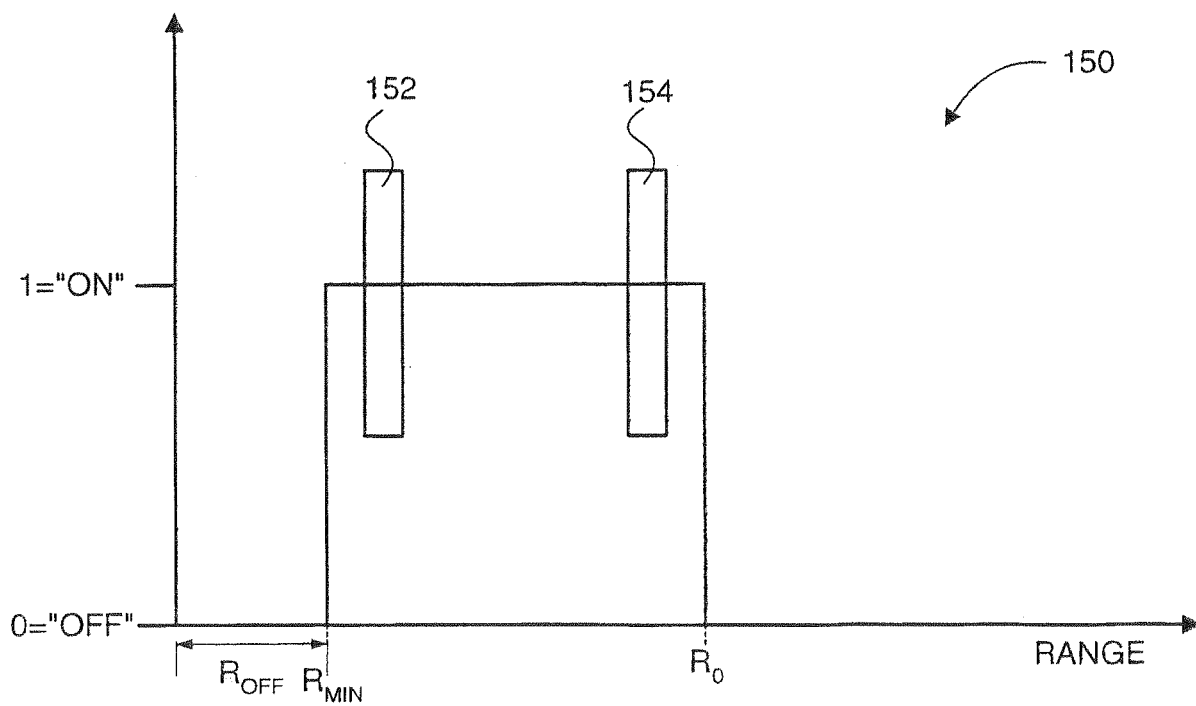


FIG. 6

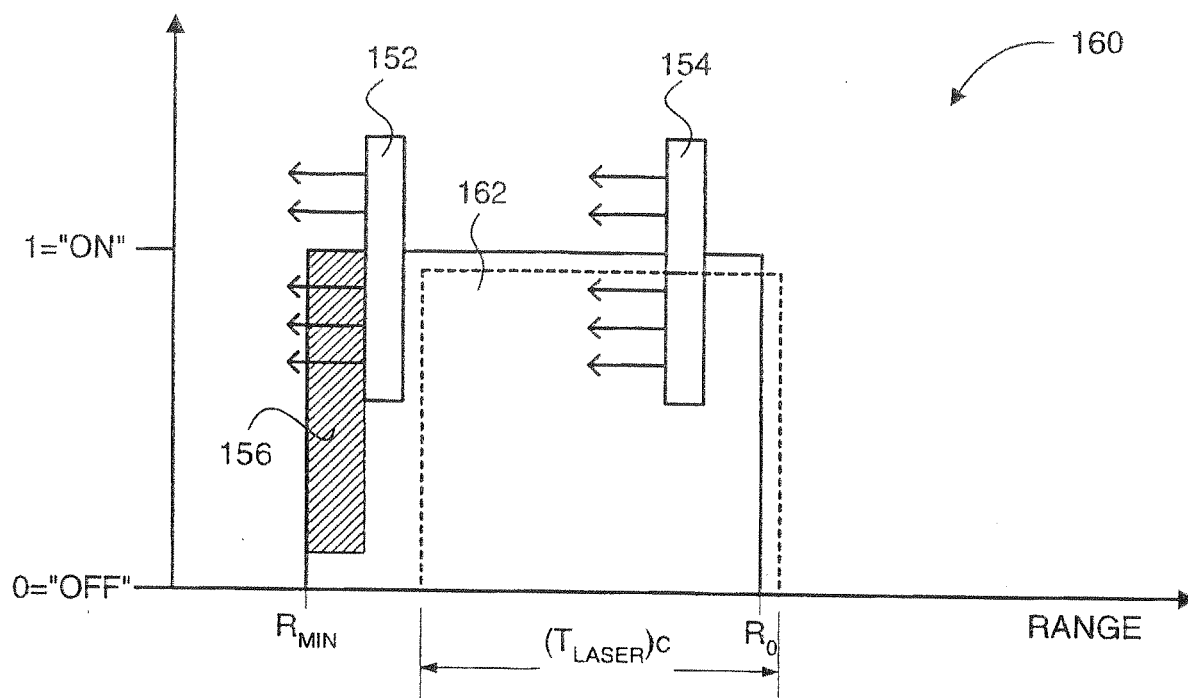


FIG. 7

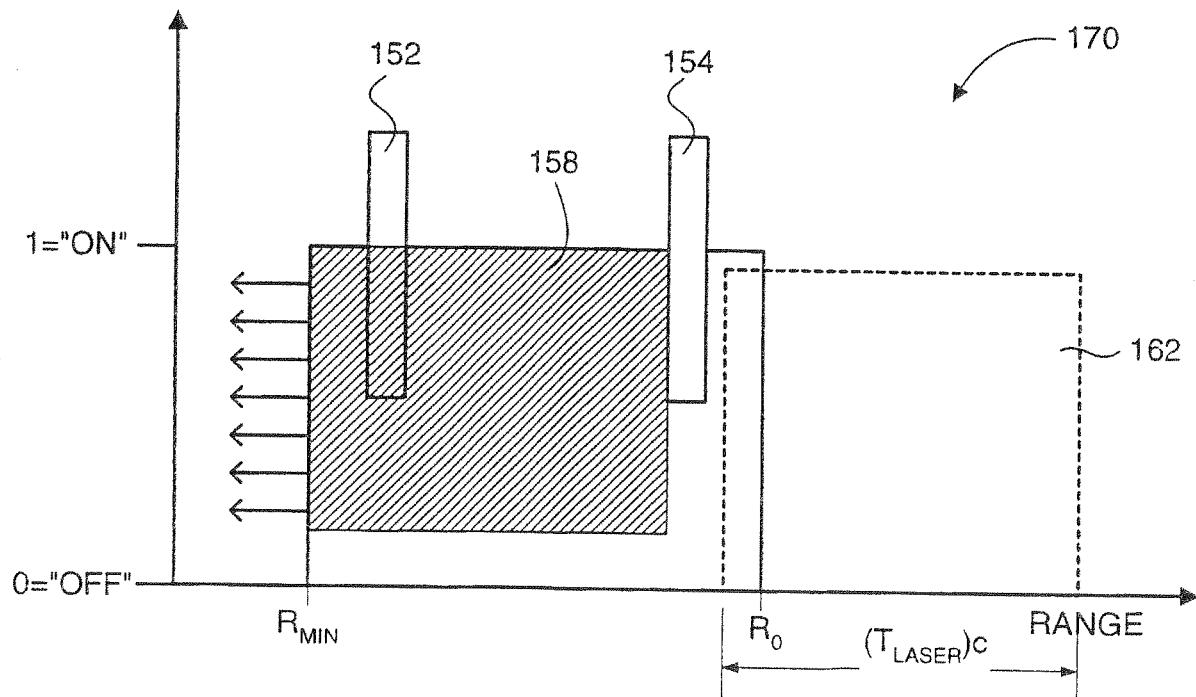


FIG. 8

6/17

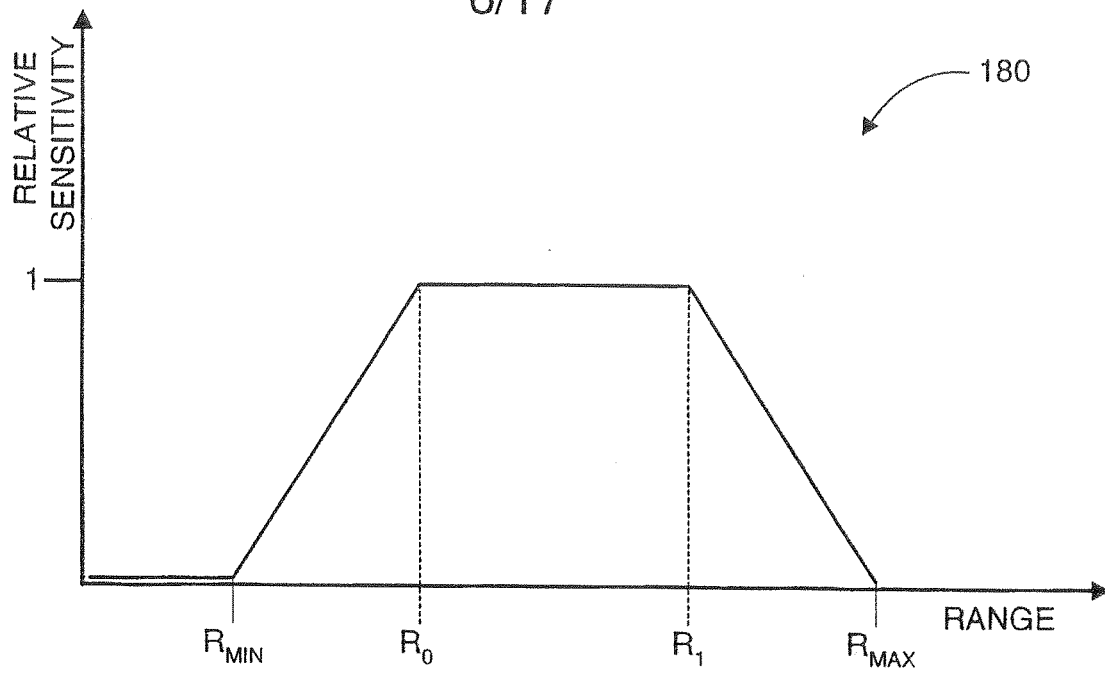


FIG. 9

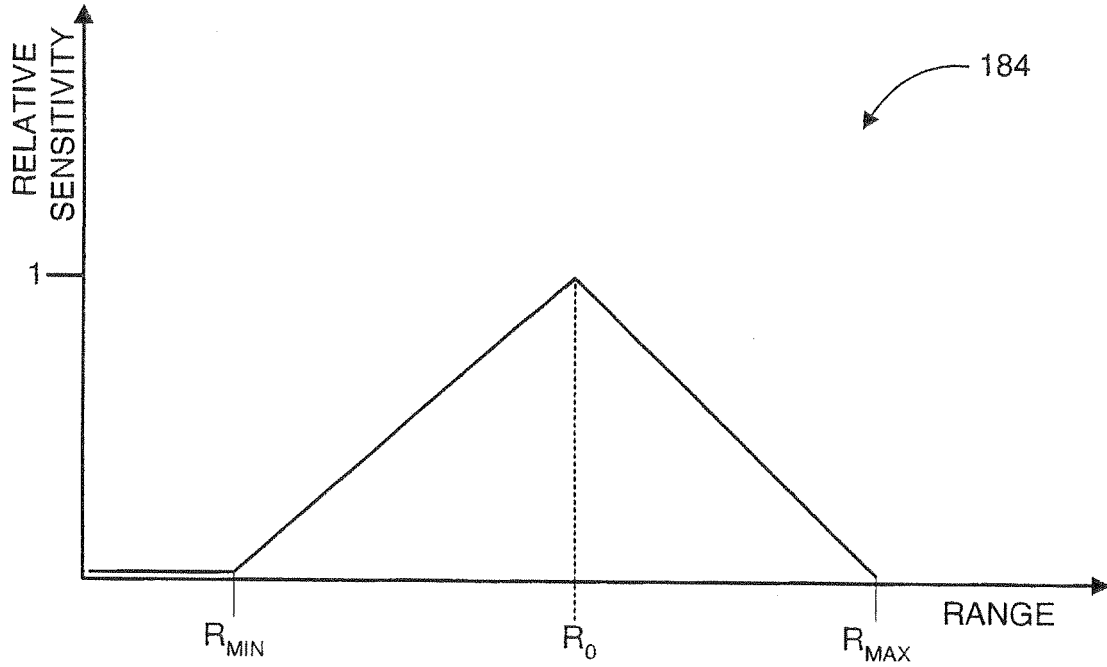
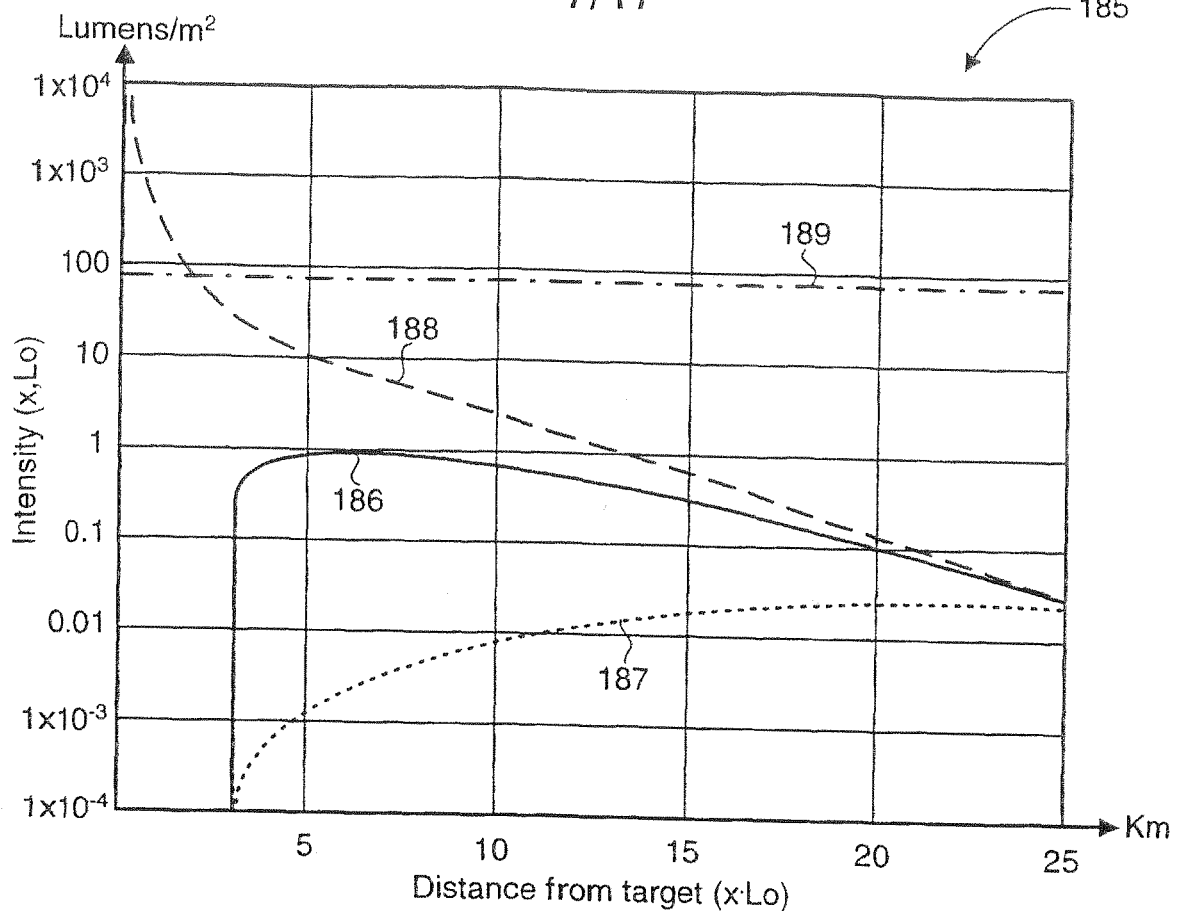


FIG. 10

7/17



- Gated target irradiance (IGL)
- Gated backscatter radiant intensity (IRAg)
- - - Non-gated target irradiance (IL)
- . - Non-gated backscatter radiant intensity (IRAng)

Effective gated and non-gated laser irradiance on target and backscatter radiant intensity (lumens per square meter) as a function of range (kilometers), in a simulation of Long Pulse Gated Imaging (LPGI)

V = 15 km	Sea level visibility range
H = 3 km	Platform/Target height above sea level
Lm = 3 km	Minimal range
Lo = 25 km	Optimal gating range

FIG. 11

8/17

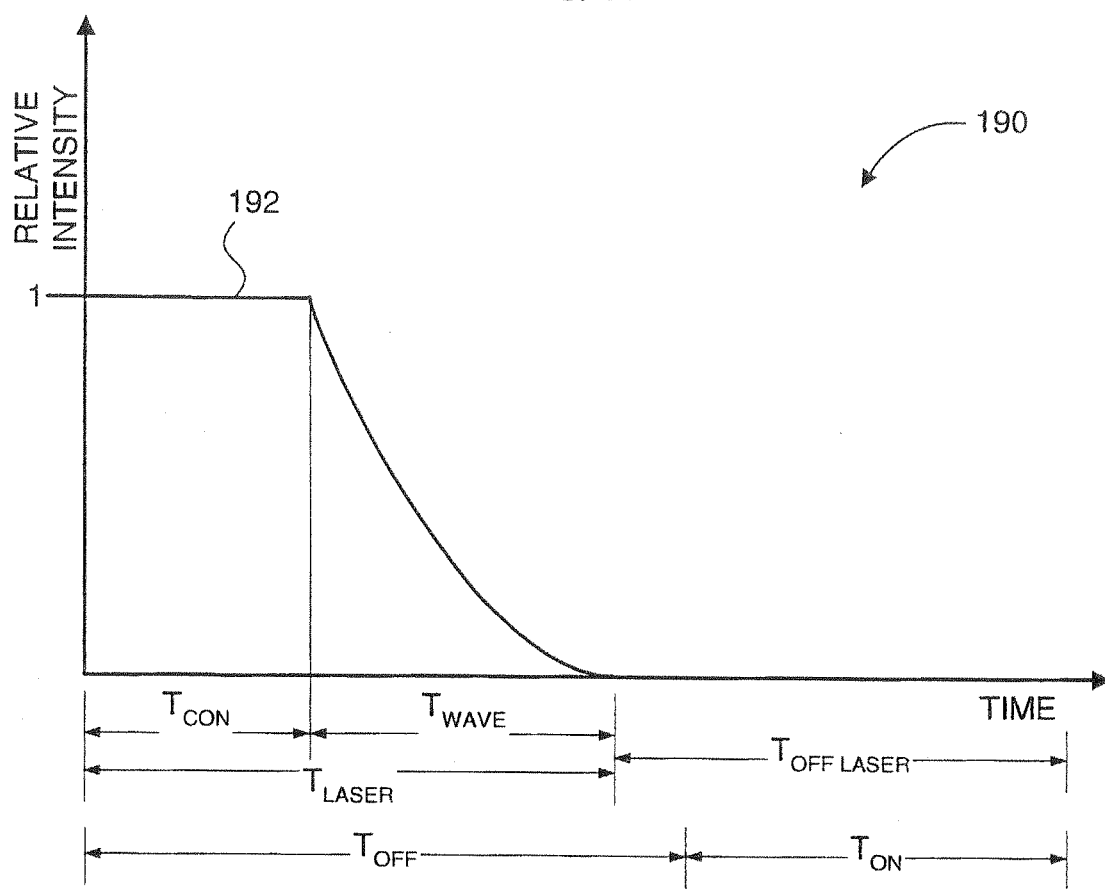


FIG. 12

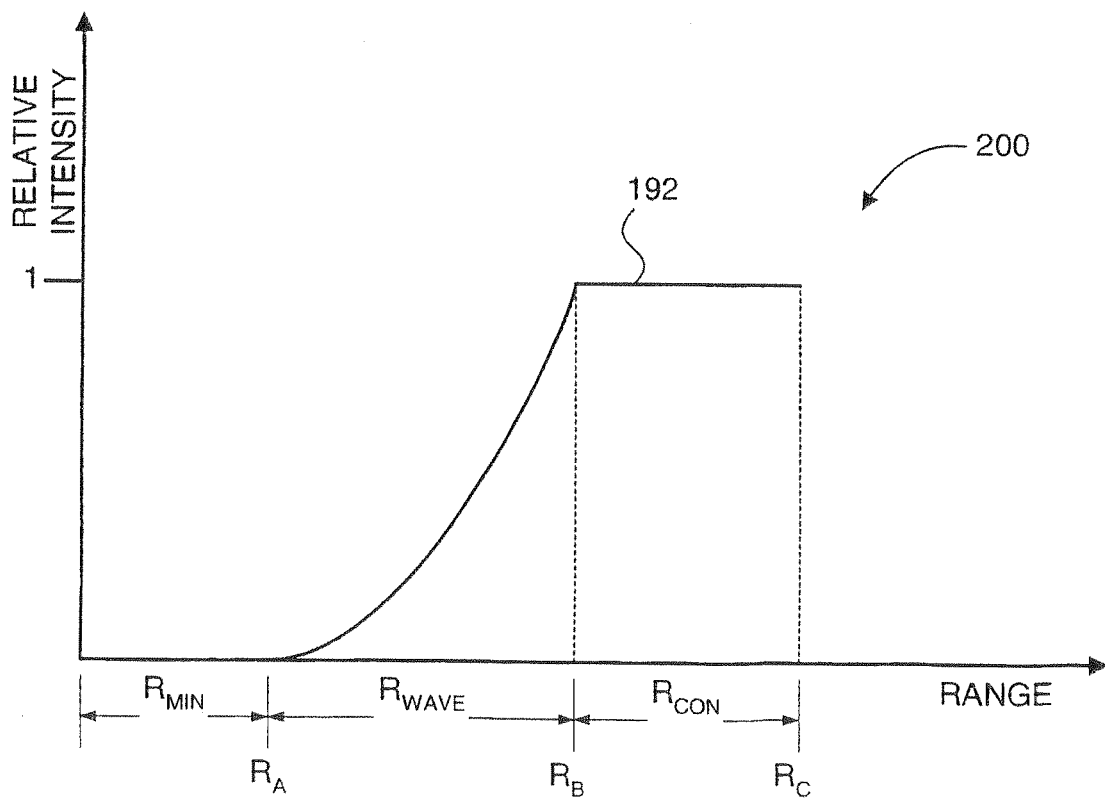


FIG. 13

9/17

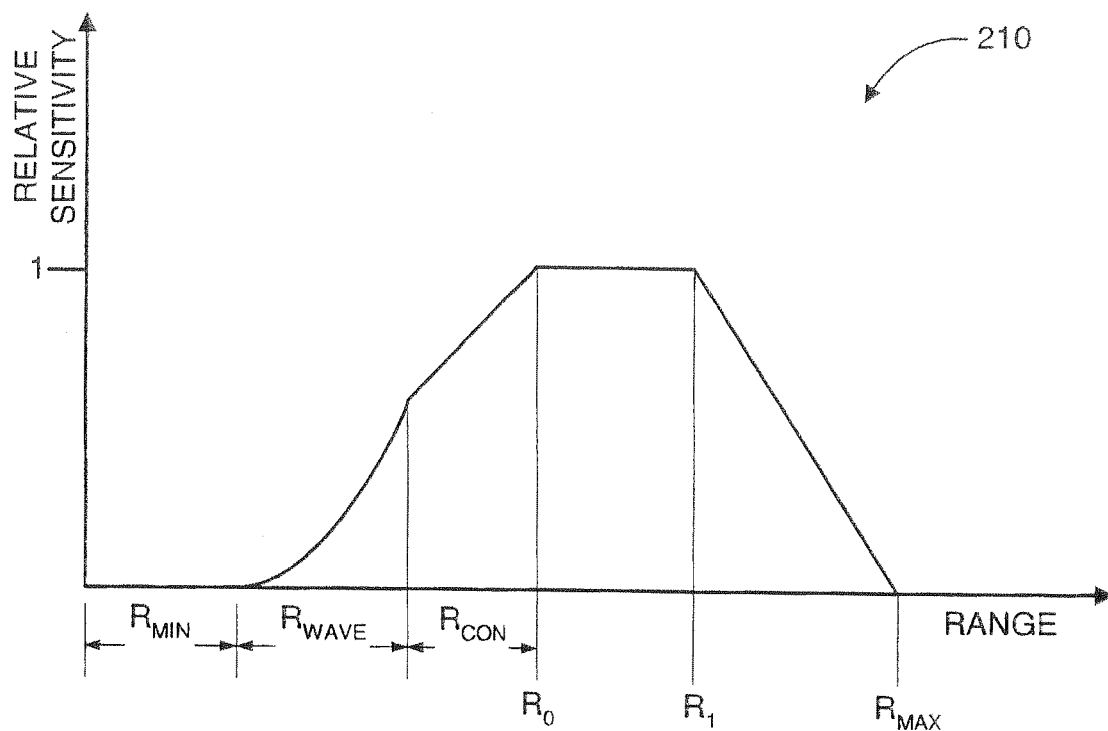


FIG. 14

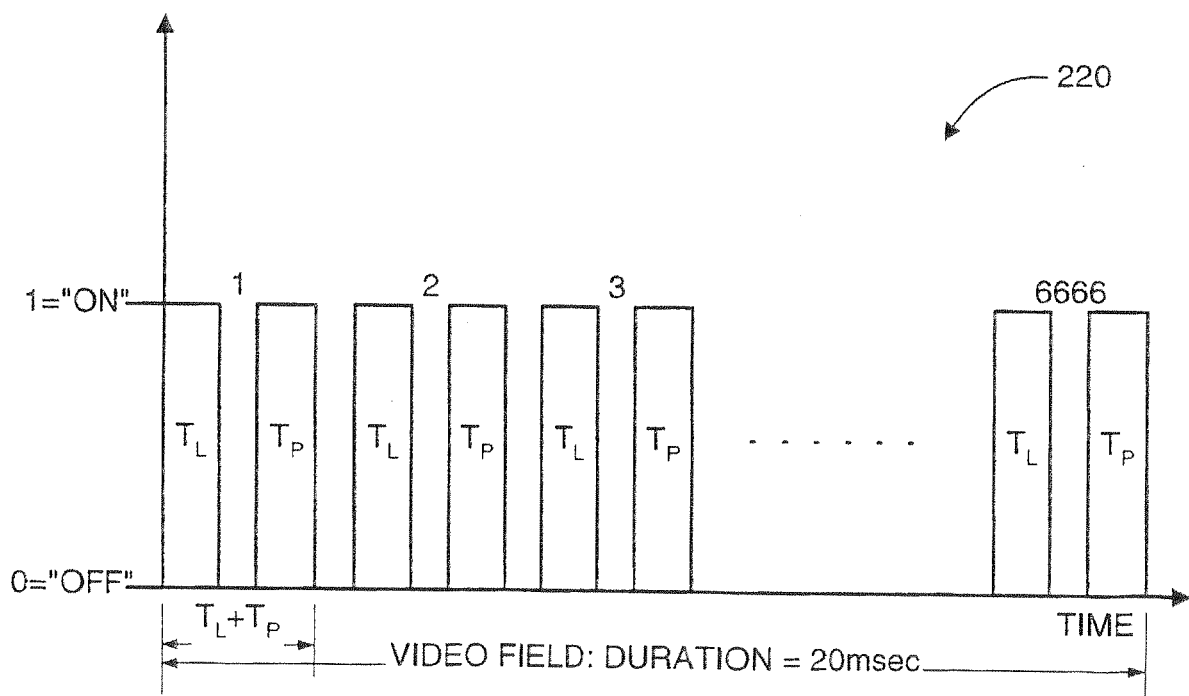


FIG. 15

10/17

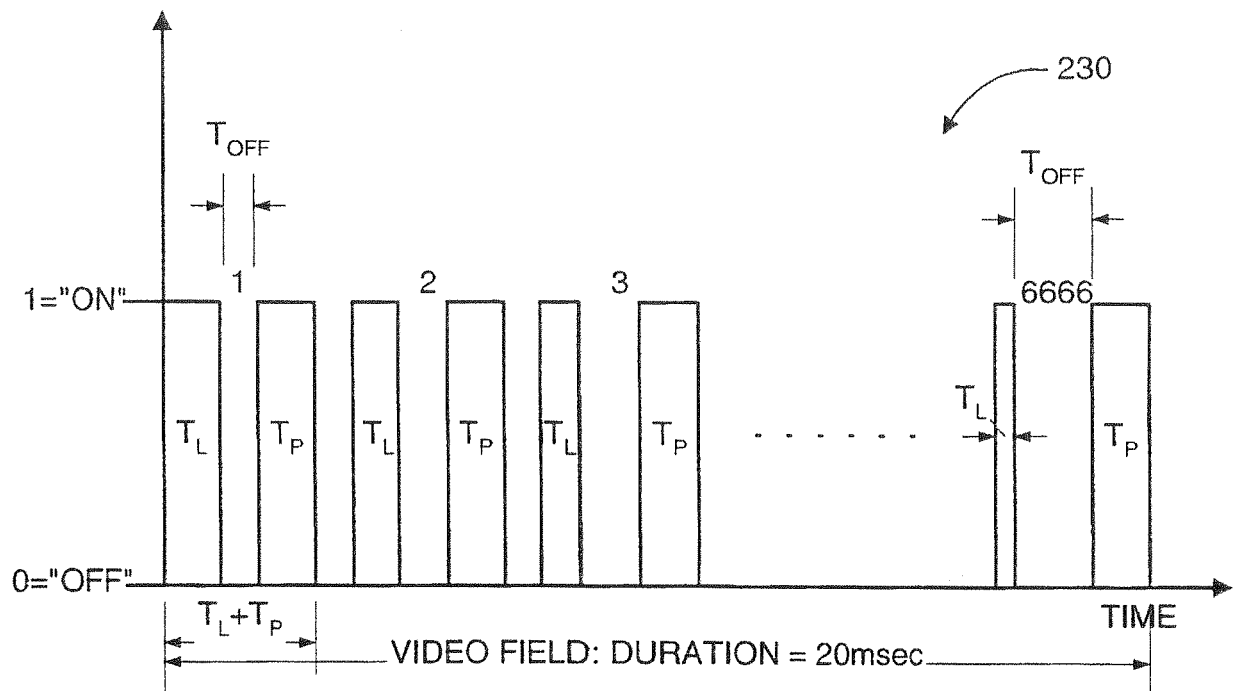


FIG. 16

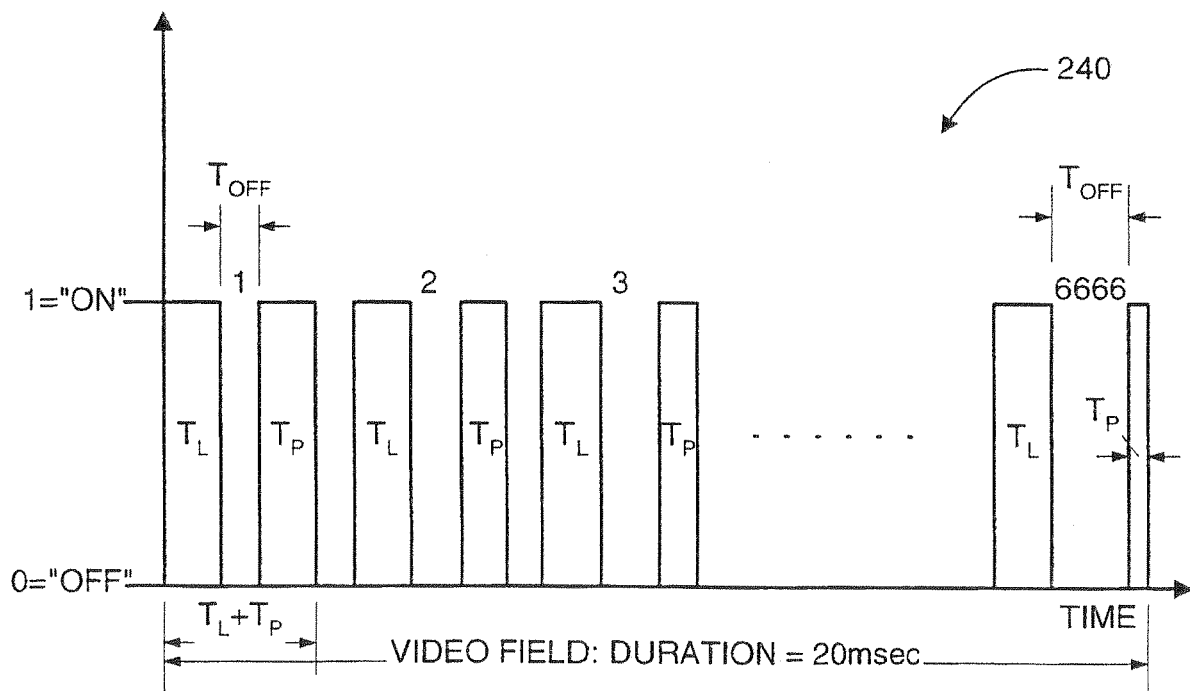


FIG. 17

11/17

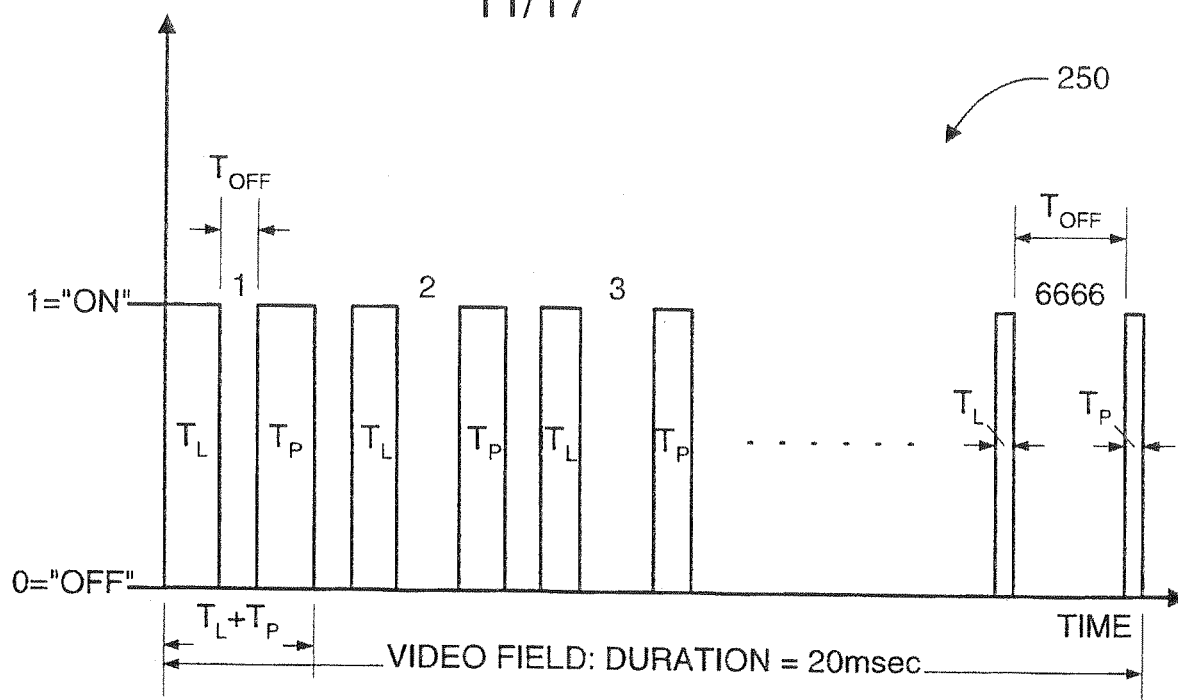


FIG. 18

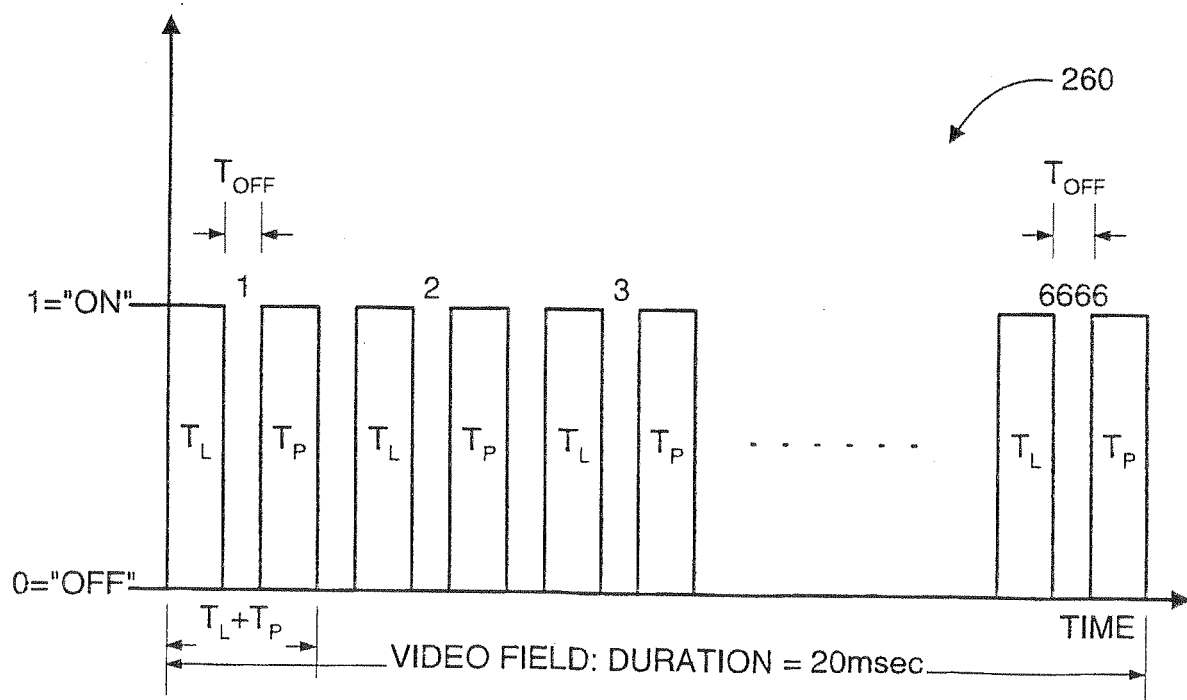


FIG. 19

12/17

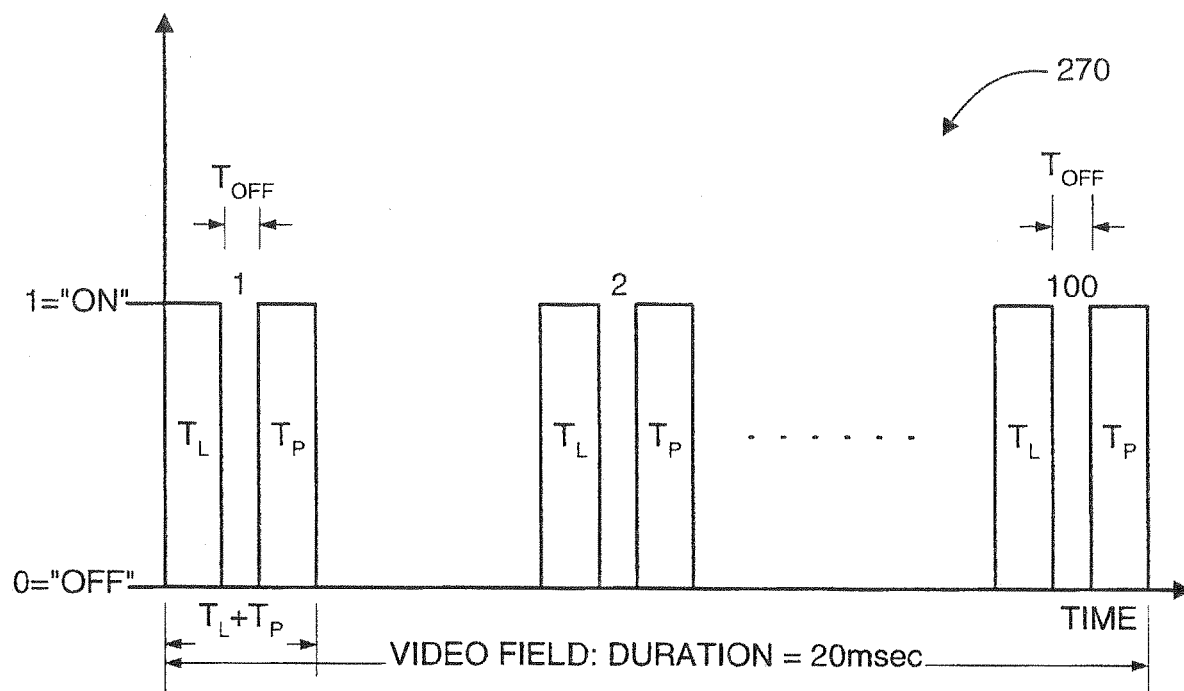


FIG. 20

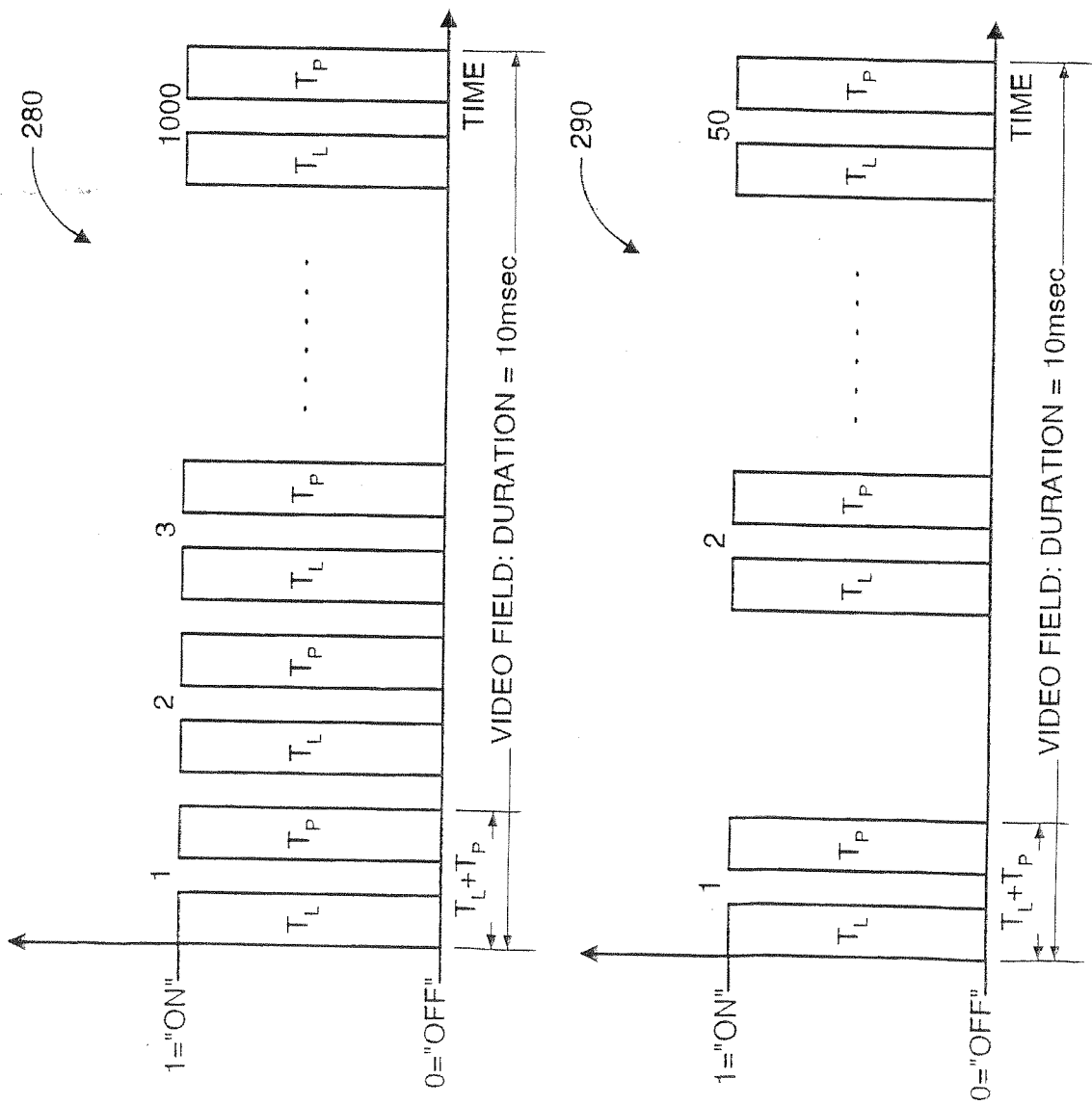


FIG. 21

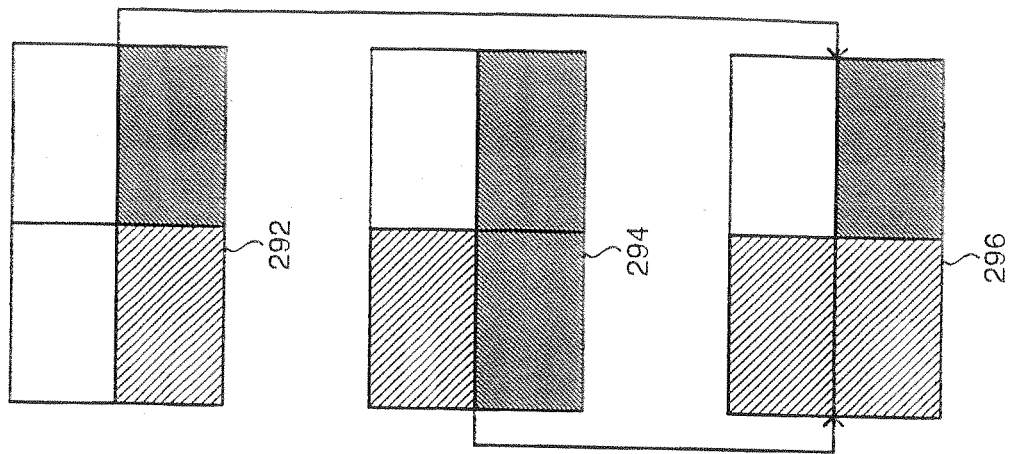


FIG. 22

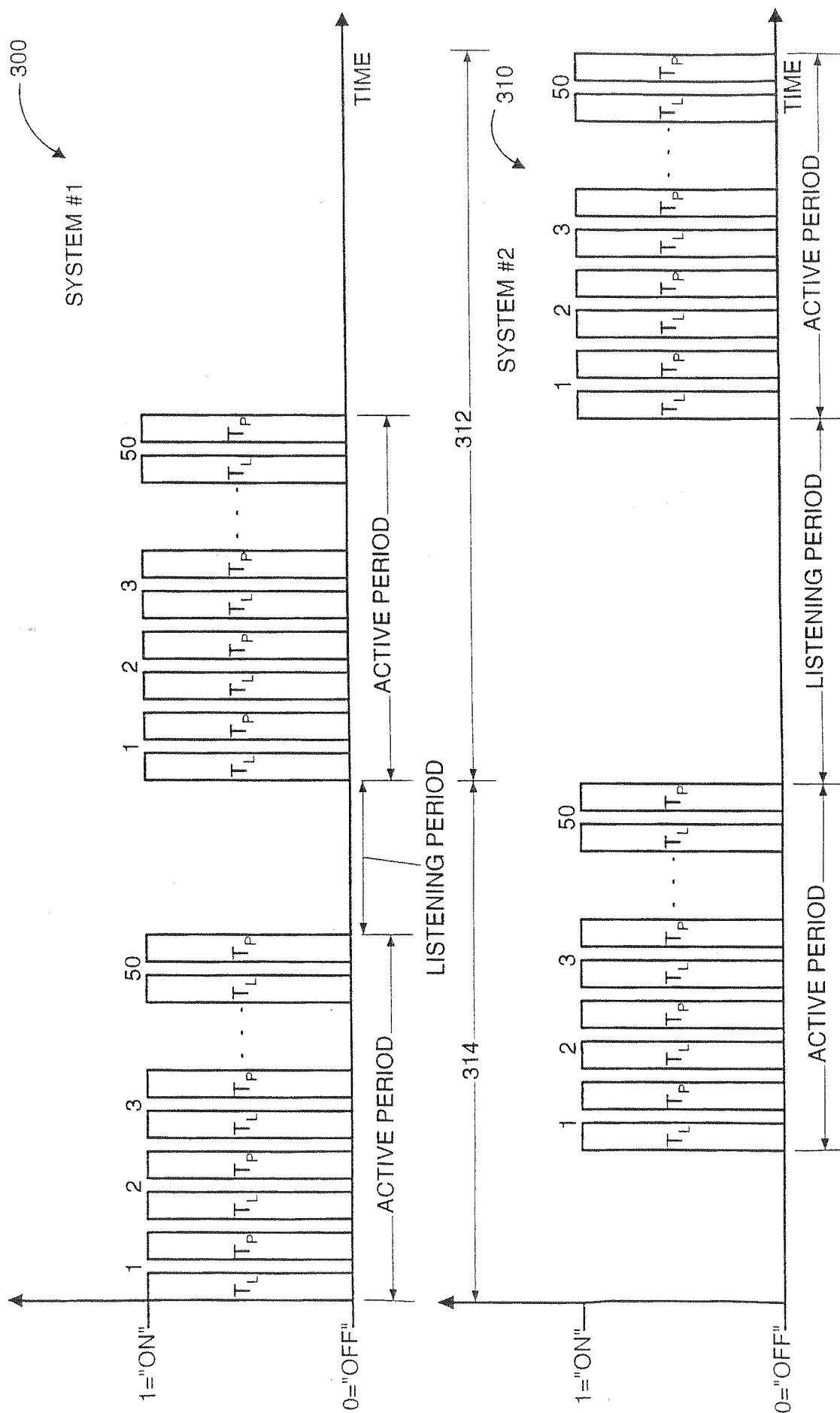


FIG. 23

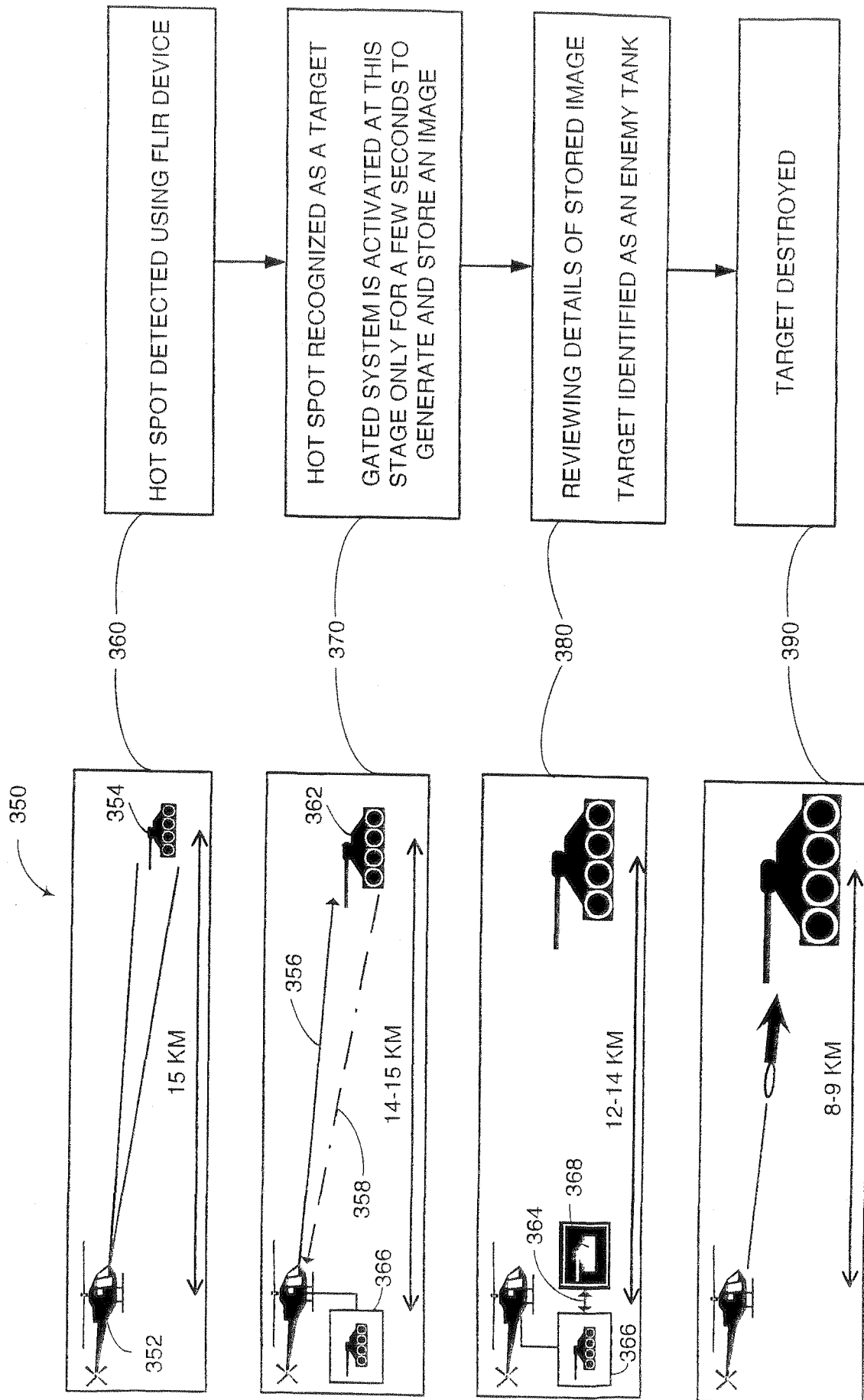


FIG. 24

16/17

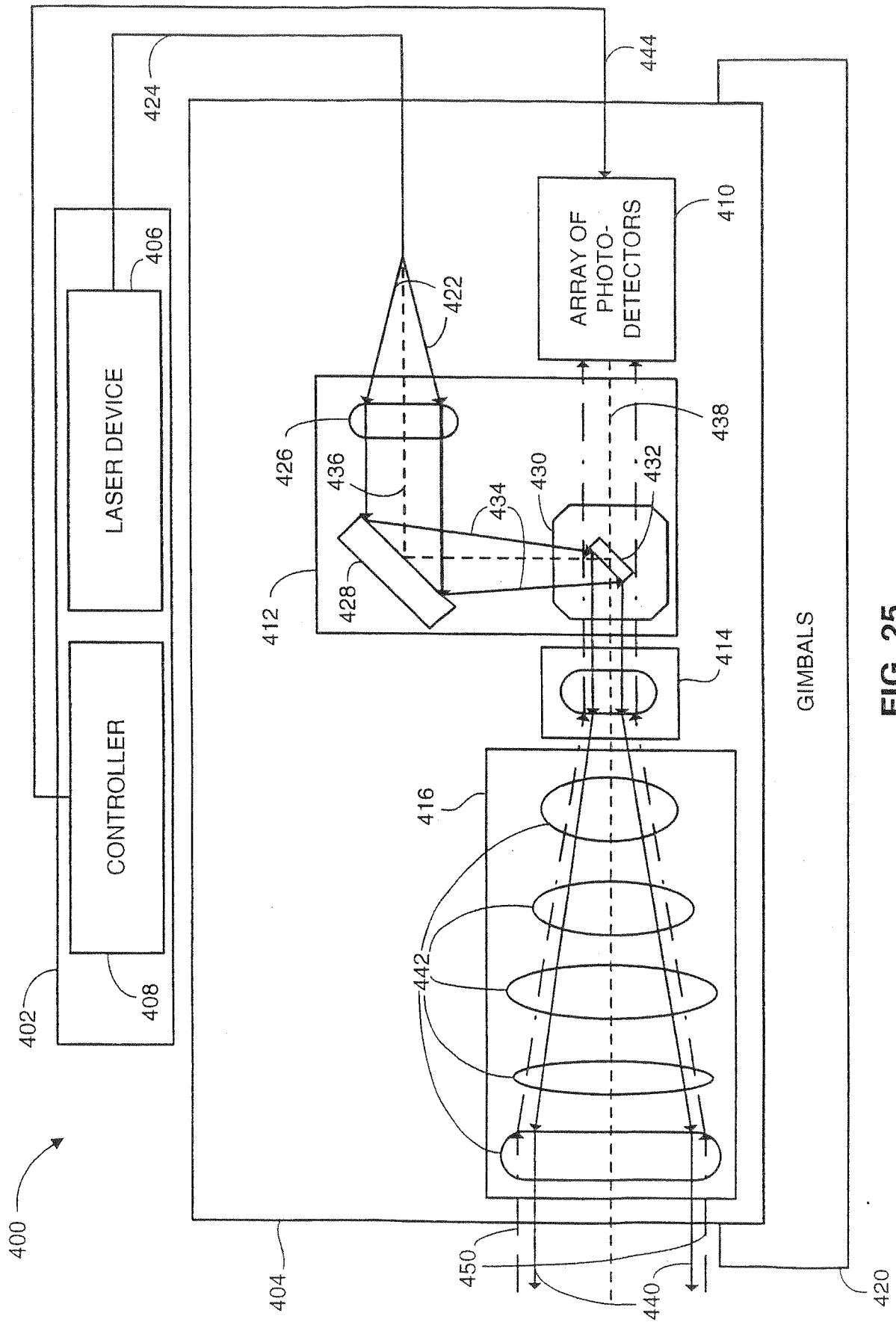


FIG. 25

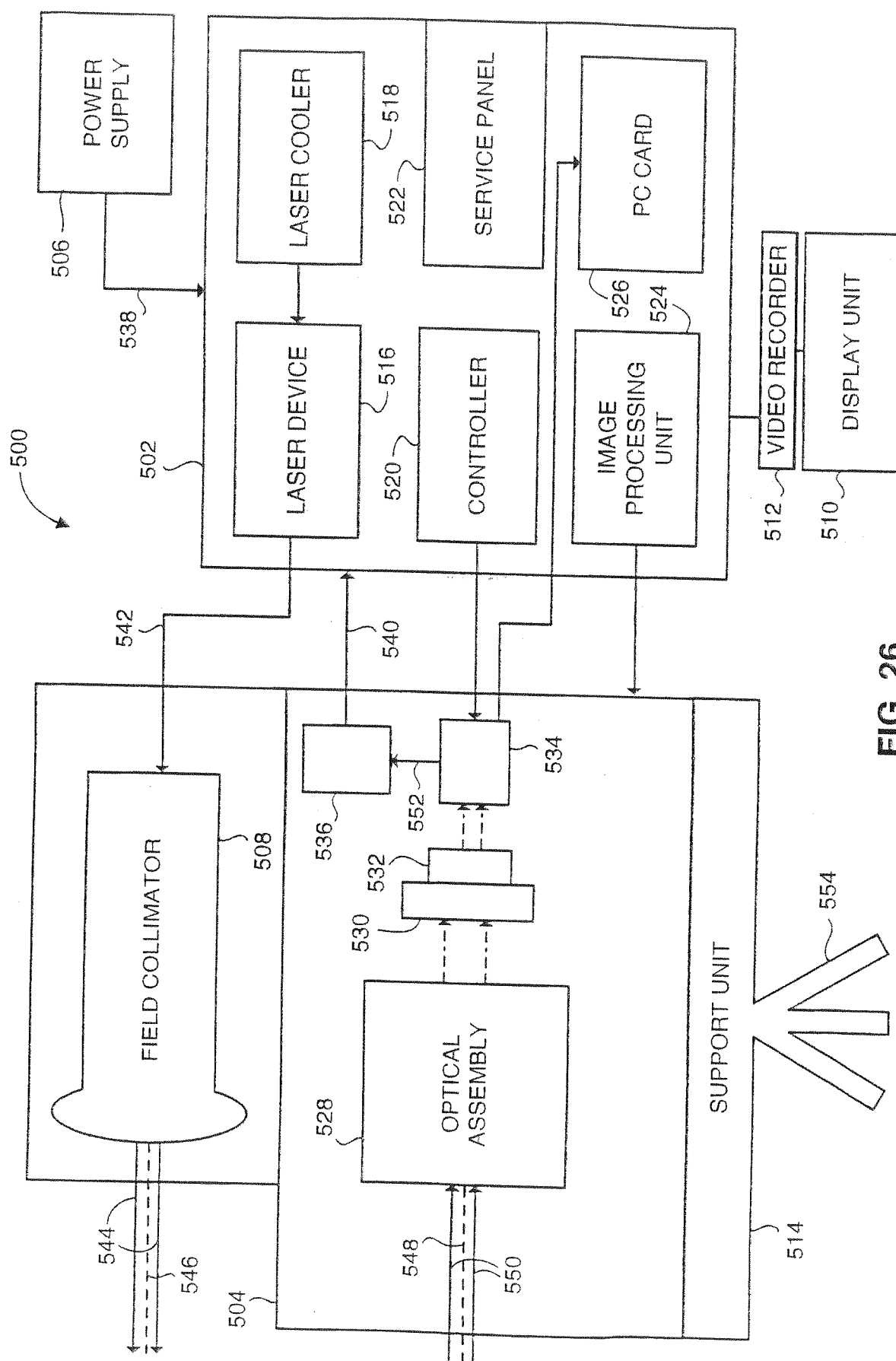


FIG. 26