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(71) Applicant: **ELECTRO SCIENTIFIC INDUSTRIES, INC.** [US/US]; 14523 SW Millikan Way, Beaverton, Oregon 97005 (US).

(72) Inventors: **ALPAY, Mehmet**; 14523 SW Millikan Way, Beaverton, Oregon 97005 (US). **HOWE, Tyler**; 14523 SW Millikan Way, Beaverton, Oregon 97005 (US). **JACOBS, Samuel**; 14523 SW Millikan Way, Beaverton, Oregon 97005 (US). **YOSHINO, Fumiyo**; 14523 SW Millikan Way, Beaverton, Oregon 97005 (US).

(74) Agent: **EATON, Kurt**; 2 Tech Drive, Suite 201, Attn: IP Department, Andover, Massachusetts 01810 (US).

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(54) Title: SYSTEM AND METHOD FOR THERMALLY-STABLE OPERATION OF ACOUSTO-OPTIC DEFLECTOR WITH REDUCED ACOUSTIC TRANSIENTS

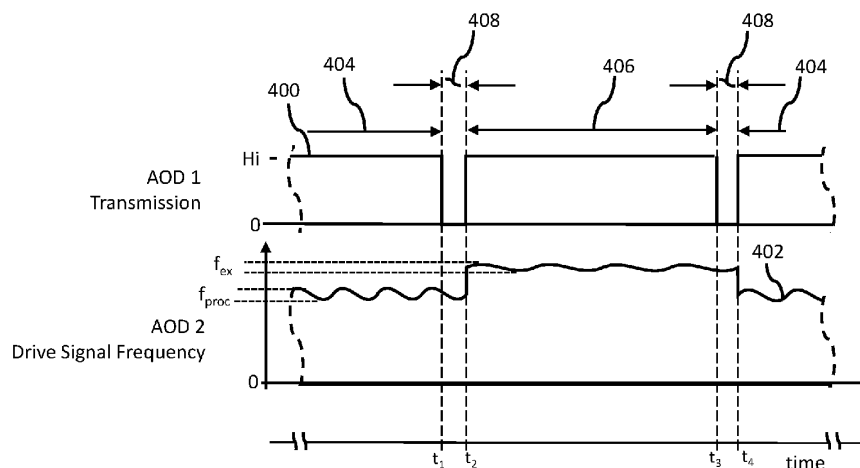


FIG. 4

(57) Abstract: A system includes an acousto-optic deflector (AOD) scanning system for deflecting a beam path and controller for controlling the AOD scanning system. The controller can control an operation of one driver of the AOD scanning system to deflect the beam path from a first position to a second position, and can control an operation of another driver of the AOD scanning system to decrease a transmission of laser energy in the deflected beam path during a period of time, wherein the period of time ends when the operation of the one of the first driver or the second driver is controlled to deflect the beam path from the first position to the second position.

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