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(54) Title: SYSTEM AND METHOD FOR ALIGNMENT OF BEAMS OF COHERENT BEAM ARRAY

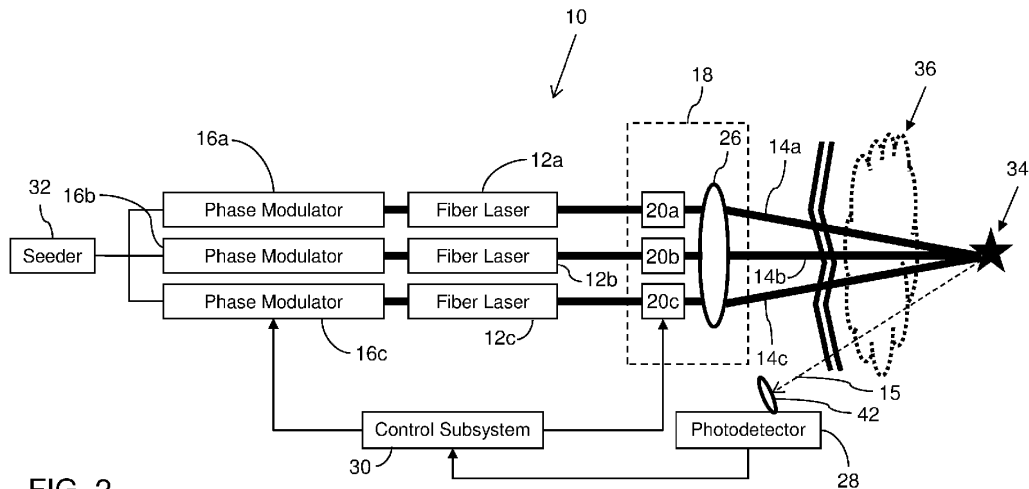


FIG. 2

(57) Abstract: A CBC system includes an array of beam sources generating coherent beams directed towards a target. The beam sources have associated adjustable phase modulators and beam steering arrangements. For each of the beams in a subset of the beams, the corresponding beam steering arrangement is actuated to steer the beam, and the corresponding phase modulator is actuated to modulate a current phase of the beam between at least three phase states. A detector monitors an intensity parameter that varies as a function of an intensity of radiation impinging on the target. A controller calculates, for each of the beams in the subset, a current value that is representative of a relative intensity of the beam based at least in part on the monitored intensity parameter at each of the at least three phase states. The calculated value is indicative of a current position of the beam relative to the target.

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