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(54) **Title:** REDUCED SPECKLE ILLUMINATION SYSTEMS AND METHODS

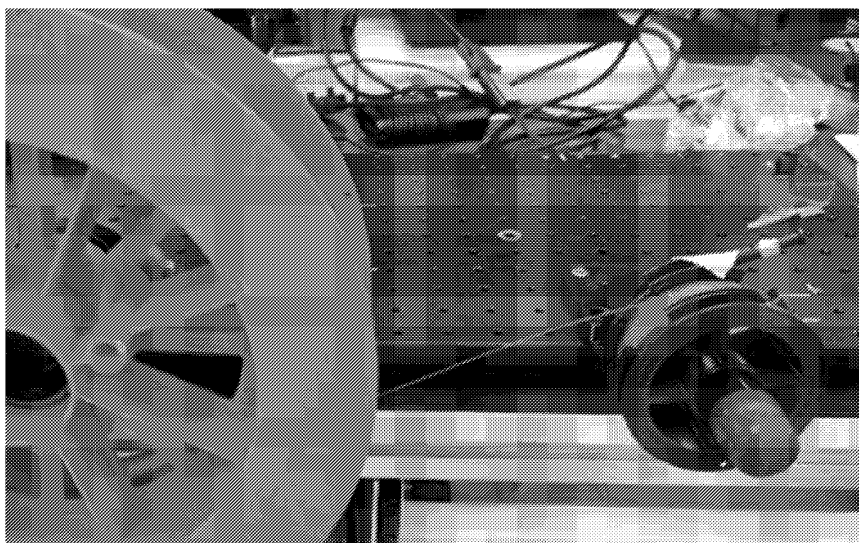


FIG. 10

(57) **Abstract:** Provided are laser sources, the laser sources comprising at least one diode; and an optic fiber of a predefined length disposed between the laser source and a position for a target such that the optic fiber communicates light pulses from the laser source as a source light to the position for the target, wherein the position is illuminated by the source light so as to reduce speckles in a captured image of the target. Also provided are methods for providing source light for generating an image, comprising: generating illumination with one or more laser diodes; and passing the illumination through an optic fiber having a plurality of bends therein such that source light is emitted from the optic fiber so as to illuminate a target with the source light, the source light reducing speckles in an image of the target.

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