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(71) Applicants: **RENSSELAER POLYTECHNIC INSTITUTE** [—/US]; 110 8th Street, Troy, NY 12180-3590 (US). **BOSTON UNIVERSITY** [—/US]; One Silber Way, Boston, MA 022125 (US).

(72) Inventors: **KARLICEK, Robert, F.**; 7 Fort Hill Drive, Mechanicville, NY 12118 (US). **RADKE, Richard, J.**; 306 Highgate Drive, Slingerlands, NY 12159 (US).

LITTLE, Thomas, D., C.; 80 Plymouth Road, Newtown, MA 02461 (US). **BUTALA, Pankil, M.**; 116 Tremont Street, Brighton, MA 02135 (US). **JIA, Li**; 71 25th Street, Troy, NY 12180 (US).

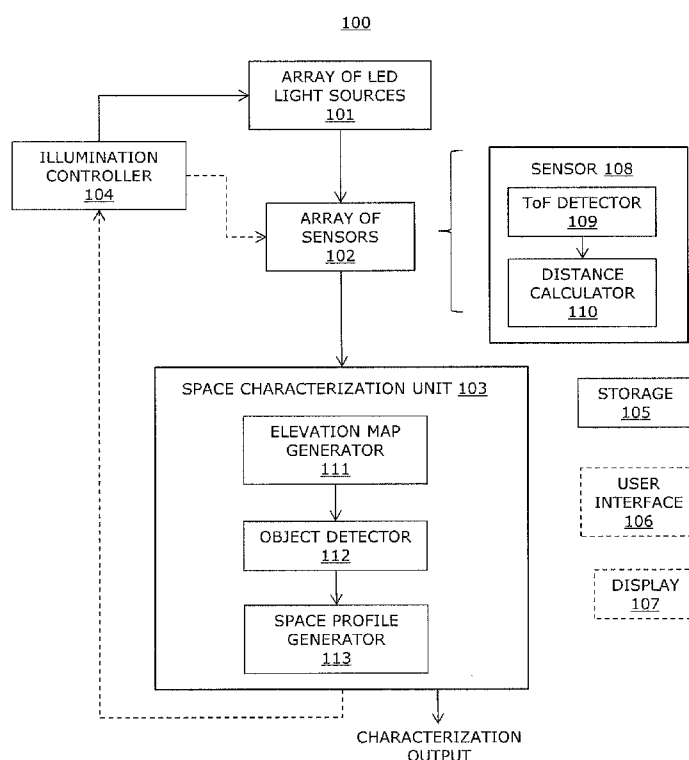
(74) Agents: **ETKOWICZ, Jacques, L.** et al.; Ratnerprestia, P.O. Box 980, Valley Forge, PA 19482 (US).

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(54) Title: SENSORY LIGHTING SYSTEM AND METHOD FOR CHARACTERIZING AN ILLUMINATION SPACE



(57) Abstract: Disclosed herein is an illumination system including an array of LED light sources for emitting light encoded with a modulation pattern, an array of sensors and a space characterization unit. The array of sensors receives emitted light scattered by an object. Each sensor determines a distance between the corresponding light source and the object using the modulation pattern. The space characterization unit uses the distance from each sensor to generate an elevation map indicating a presence of the object.



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