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- (71) Applicant (for all designated States except US):
XENOGEN CORPORATION [US/US]; 860 Atlantic
Avenue, Alameda, CA 94501 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **CABLE, Michael, D.** [US/US]; 105 St. Edward Court, Danville, CA 94526 (US). **RICE, Bradley, W.** [US/US]; 93 Woodranch Circle, Danville, CA 94506 (US). **NILSON, David** [US/US]; 21 Garron Court, Walnut Creek, CA 94596 (US).
- (74) Agent: **OLYNICK, Mary, R.**; Beyer Weaver & Thomas LLP, P.O. Box 778, Berkeley, CA 94704-0778 (US).

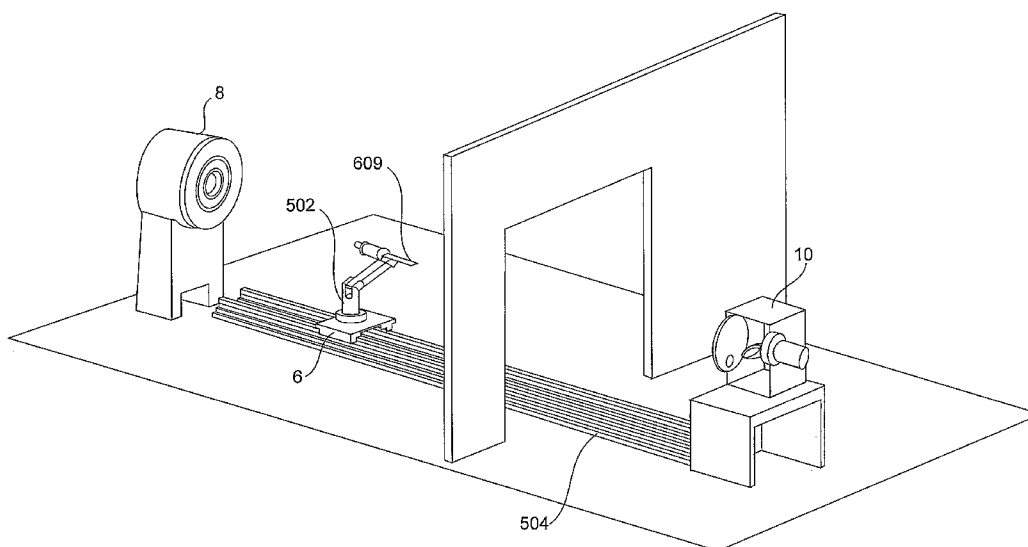
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(54) Title: MULTI-MODE INTERNAL IMAGING



(57) **Abstract:** The invention described herein provides systems and methods for multi-modal imaging with light and a second form of imaging. Light imaging involves the capture of low intensity light from a light-emitting object. A camera obtains a two-dimensional spatial distribution of the light emitted from the surface of the subject. Software operated by a computer in communication with the camera may then convert two-dimensional spatial distribution data from one or more images into a three-dimensional spatial representation. The second imaging mode may include any imaging technique that compliments light imaging. Examples include magnetic resonance imaging (MRI) and computer topography (CT). An object handling system moves the object to be imaged between the light imaging system and the second imaging system, and is configured to interface with each system.

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