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- (71) **Applicant:** CORNING INCORPORATED [US/US]; 1 Riverfront Plaza, Corning, New York 1483 1 (US).
- (72) **Inventors:** COMSTOCK, Lovell Elgin, II; 120 Old Claremont Road, Charlestown, New Hampshire 03603 (US). WIGGINS, Richard Lynton; 30 Crescent Street, Keene, New Hampshire 0343 1 (US). WOODARD, Kenneth Smith; 143 Town Farm Road, New Boston, New Hampshire 03070 (US).
- (74) **Agent:** DOUGLAS, Walter M; Corning Incorporated, Intellectual Property Department, SP-Ti-03-01, Corning, New York 1483 1 (US).
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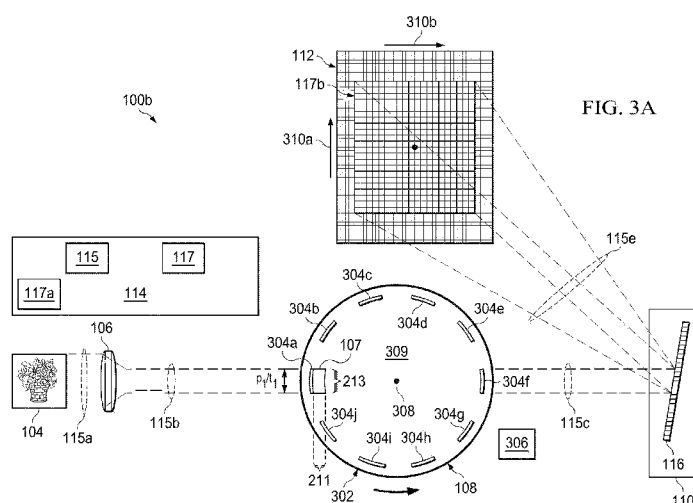
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(54) **Title:** HYPERSPECTRAL IMAGING SYSTEMS AND METHODS FOR IMAGING A REMOTE OBJECT



(57) **Abstract:** A hyperspectral imaging system (100b) and a method are disclosed herein for providing a hyperspectral image of an area of a remote object (e.g., scene of interest 104). In one aspect, the hyperspectral imaging system includes at least one optic (106), a rotatable disk (302) which has multiple straight slits (304) formed therein, a spectrometer (110), a two-dimensional image sensor (112), and a controller (114). In another aspect, the hyperspectral imaging system includes at least one optic, a rotatable disk (which has at least one spiral slit formed therein), a spectrometer, a two-dimensional image sensor, and a controller. In yet another aspect, the hyperspectral imaging system includes at least one optic, a rotatable drum (which has a plurality of slits formed on the outer surface thereof and a fold mirror located therein), a spectrometer, a two-dimensional image sensor, and a controller.