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(71) Applicant (for all designated States except US): **PPG INDUSTRIES OHIO, INC.** [US/US]; 3800 West 143rd Street, Cleveland, Ohio 44111 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PURDY, Sean** [US/US]; 8078 Capitol Drive, Cincinnati, Ohio 45244 (US). **WILLIAMSON, Jessica M.** [US/US]; 5448 Erie Station Lane, Apt. #92, Cincinnati, Ohio 45227 (US).

(74) Agents: **MEYERS, Diane R.** et al.; PPG Industries, INC., One PPG Place, 39th Floor, Pittsburgh, Pennsylvania 15272 (US).

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(54) Title: METHOD OF IMAGING IN CRYSTALLINE COLLOIDAL ARRAYS

(57) Abstract: A method of printing an image that diffracts radiation is disclosed. The method includes assembling an ordered periodic array of particles on a substrate, wherein the array of particles diffracts radiation in a wavelength band dependent on viewing angle; printing an imaging composition onto a portion of the array in a configuration of an image; shifting the wavelength band of radiation diffracted and changing the refractive index by the printed portion of the array so that the printed portion diffracts radiation at a different wavelength band and reflectivity intensity from a remaining portion of the array; and fixing the printed portion of the array, such that the printed portion of the array diffracts radiation and exhibits the image.



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