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(71) Applicant (for all designated States except US): LIGHT

ENGINE LIMITED [CN/CN]; 6/F, Photonics Centre, 2 Science Park East Avenue, Shatin, Hong Kong (CN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DROSS, Oliver

[DE/DE]; Dauner Str. 18, 50937 Koln (DE). MO-

HENDANO, Ruben [ES/ES]; Calle Jose Ramon Vizcaino

5, E-28037 Madrid (ES). CHAVES, Julio, C. [PT/PT];

Avenida Central N. 7, 5 A, P-3000-607 Coimbra (PT).

MUNOZ, Fernando [ES/ES]; Maudes 22, 2B, E-28003

Madrid (ES). MIÑANO, Juan, C. [ES/ES]; Calle Santa

Cruz De Marcenado 31, 7, E-28015 Madrid (ES).

FALICOFF, Waqidi [US/US]; 24979 Constitution Avenue,

Apt. 1138, Stevenson Ranch, CA 91381 (US).

(74) Agent: YANG, Cindy; Dickstein Shapiro LLP, 1633

Broadway, New York, NY 10019-6708 (US).

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(54) Title: FACETTED FOLDED-OPTIC COLLIMATOR

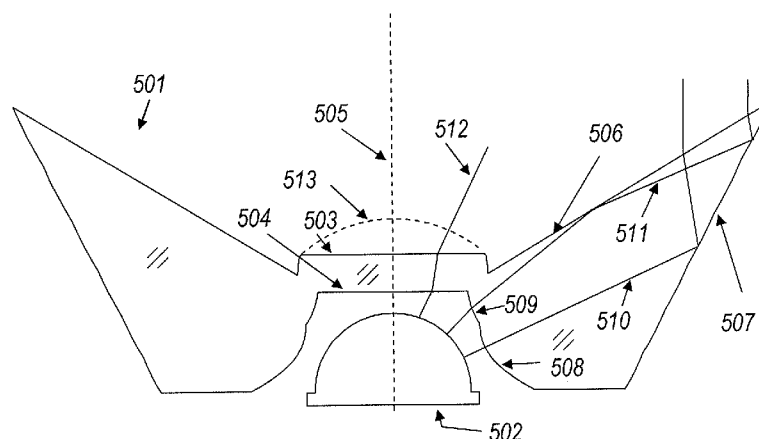


FIG. 5

(57) Abstract: A folded circularly symmetric illumination optic comprising a first light transfer mode having a first central refractive surface and a second central refractive surface, wherein one of the first and second central refractive surfaces has at least one peened feature; a second light transfer mode having a first refractive surface, a first TIR surface, a second TIR surface and a second refractive surface; a third light transfer mode having a first refractive surface, a first TIR surface and a second refractive surface, wherein the first TIR surface has at least one peening feature, and wherein the second refractive surface is conical; wherein the first TIR surface and second refractive surface of the second light transfer mode is coincident at least one point, wherein the second refractive surface of the third light transfer mode is coincident with the first TIR surface and second refractive surface of the second light transfer mode.

