

62/325,917 PORTABLE LIGHT WITH LASER 0096- 11-18-
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(SL-727)

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Provisional Application for Patent Cover Sheet

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)

Inventor(s)

Inventor 1

Given Name	Middle Name	Family Name	City	State	Country j
Raymond	L.	Sharrah	Collegeville	PA	US

Inventor 2

Given Name	Middle Name	Family Name	City	State	Country j
Thomas	D.	Boris	Collegeville	PA	US

All Inventors Must Be Listed – Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.

Title of Invention

PORTABLE LIGHT WITH LASER

Attorney Docket Number (if applicable)

0096-P06343US00 (SL-727)

Correspondence Address

Direct all correspondence to (select one):

The address corresponding to Customer Number Firm or Individual Name

Customer Number

00110

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

No.

Yes, the invention was made by an agency of the United States Government. The U.S. Government agency name is:

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Entity Status

Applicant asserts small entity status under 37 CFR 1.27 or applicant certifies micro entity status under 37 CFR 1.29

- Applicant asserts small entity status under 37 CFR 1.27
- Applicant certifies micro entity status under 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
- No

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Signature

Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Niels Haun/		Date (YYYY-MM-DD)	2016-04-21	
First Name	Niels	Last Name	Haun	Registration Number (If appropriate)	48488

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PORTABLE LIGHT WITH LASER

[001] The present invention relates to a portable light in with a white light source and a laser.

[002] Portable lights are used in many environments to provide illumination and to enable personnel to operate in those environments. In certain environments, visibility may be reduced by smoke, particles, fog, steam or other matter suspended or floating in the air, e.g., in environments often encountered by firefighters, police, security and other first responder personnel, as well as in military and rescue environments. Often these kinds of environments may be hazardous and/or dangerous to personnel, and so the reduced visibility created by such environments can increase the level of hazard and/or danger.

[003] Typically, a bright light is necessary to penetrate such environments, however, such environments tend to reflect light back towards the portable light and thereby can tend to “blind” the personnel using the portable light. Peripheral light is particularly offensive when reflected back. One way to reduce this reflection-induced blinding is to employ a highly collimated beam of light thereby to reduce any peripherally projected light.

[004] Conventionally, lights employ a highly collimating parabolic reflector and an opaque cover, e.g., as by a black opaque area on an incandescent light source, to block peripheral light. Thus the light intensity at the center of the light beam is increased relative to the intensity at the periphery thereof. However, when the light is employed in other environments, the absence of peripheral light may be a disadvantage.

[005] With the advent of modern high light output solid state light sources, e.g., light emitting diode (LED) light sources, a parabolic reflector is less efficient because the LED does not emit light relatively evenly over a complete spherical volume as does an incandescent source. Typically, modern LEDs include an integral curved plastic lens so as to produce light relatively evenly over a hemispherical volume. Typically, many modern LED lights employ an optical arrangement in which internal reflection of light within an optical element is utilized to shape a forward projecting collimated light beam. Also typically, a level of peripheral light is provided by

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