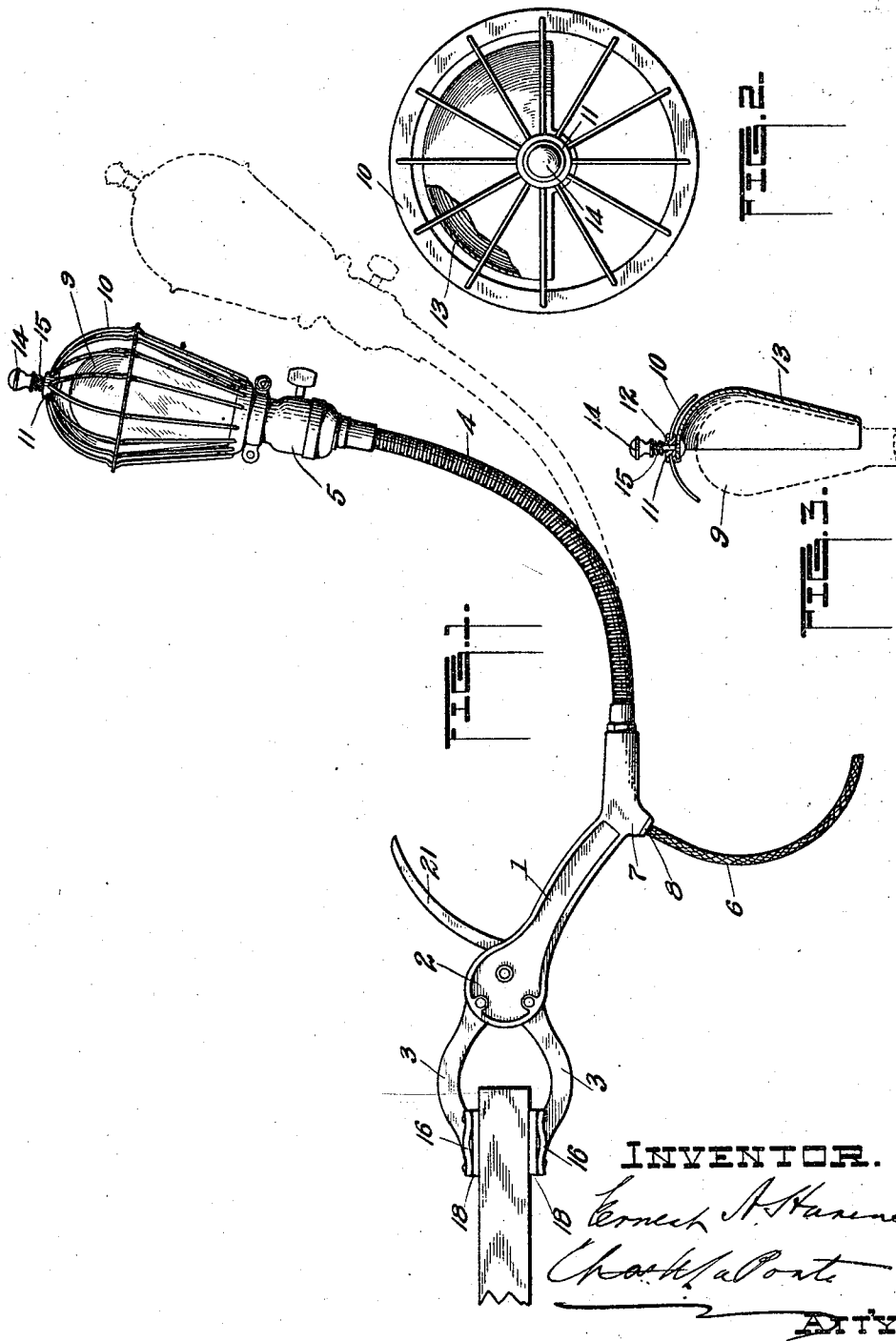


Nov. 9, 1926.

1,606,219

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PORTABLE ELECTRIC LAMP
Filed Nov. 19, 1923



UNITED STATES PATENT OFFICE.

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PORTABLE ELECTRIC LAMP.

Application filed November 19, 1923. Serial No. 675,553.

This invention has reference to portable electric lamps and it has for its principal object to provide a lamp of the character referred to which may be found useful in or about a garage, machine shop, general factory use, in or about automobiles and for many and various other uses.

A further object of the invention is to provide in a portable lamp, a handle, lever actuated jaws for clamping the lamp to a support, a flexible tube carrying a bulb or lamp, an open wire guard surrounding said bulb or lamp, a revoluble reflector within the guard and means arranged exteriorly of the guard for adjusting and holding the reflector in adjusted positions. The arrangement of the elements being such that the lamp may be clamped to any desirable object, the flexible tube bent or turned to position the bulb on the object to be lighted and the reflector adjusted to project the light on the desired object and to shade the eyes of the person using the lamp.

A still further object of the invention is to provide a revoluble reflector for a bulb surrounded by an open wire guard, the reflector being located between the bulb and guard, and in the provision of a reflector turning knob disposed exteriorly of the guard in axial alignment with the bulb and connected to the reflector, whereby on the turning of the knob the reflector may be positioned in different positions around the bulb.

That the invention may be more fully understood, reference is had to the accompanying drawings forming a part of the present description, illustrating a preferred embodiment of the invention, in which:—

Figure 1 is a side elevation of my improved portable electric lamp on a somewhat reduced scale, the same being shown clamped to a suitable support, and in dotted lines illustrating how the flexible tube may be bent to place the bulb or lamp in different positions;

Figure 2 is a detail end elevation of the open wire guard and reflector, the latter partly in section, and

Figure 3 is a detail in section showing the connection of reflector actuating knob to the reflector and journal bearing for same in the guard.

Like characters of reference denote corresponding parts throughout the figures.

1 designates a handle, the main body portion of which is preferably of channel formation for lightness. One end is bifurcated and formed or provided with flat bearing plates 2, between which and to which are pivoted clamping jaws 3. To the opposite end of said handle is suitably connected a flexible tube 4 of well known construction, to the outer end of which is connected a light socket 5. A light cord 6 which is carried within the tube 4 and connected to the light socket enters the handle intermediate its ends, preferably at 7 through a bushing 8 or other suitable connection. Said cord being of a desirable length and supplied with the usual and ordinary connections for attaching the same to a light socket. To the light socket 5 is connected the usual bulb or lamp 9 and clamped to said light socket and surrounding said bulb or lamp is the usual open wire guard 10. The lamp and guard are not unlike those now in general use, except that the head plate 11 of the guard to which the wires forming the guard are connected has journaled therein the short rod 12 the inner end of which is connected to a semi-globular reflector plate 13 lying between the guard and the bulb or lamp, as shown. To the protruding end of the rod or shaft 12 is connected a knob 14 forming a hand-hold to be gripped by a person when it is desired to revolve and position the reflector. Surrounding the rod 12 between the knob 14 and the head plate 11 is a spring 15 which holds the reflector against the head plate, as shown in Figure 3, against vibration and when adjusted in different positions. The value of the revoluble reflector and the actuating means therefor exteriorly of the guard surrounding the globe or lamp, it is believed will be readily understood. Guards are universally used on electric lamps in and about a garage, machine shop and the like, and reflectors are very desirable and in fact essential where lamps are used in machine shops and like places and are more desirable when the lamp is portable and adjustable. In the present disclosure the lamp being carried on a flexible tube it is very readily seen that an adjustable reflector is desirable, but so far as I am aware no one has provided a revoluble reflector within a guard with means for turning the reflector exteriorly of the guard, while at the same

time providing for holding the reflector in adjusted positions. With such an arrangement the scope of use of such a lamp is materially enlarged. In other words the lamp may be attached to almost any object, the flexible tube bent into almost any position and the reflector adjusted to project the light where desired and at the same time shade the eyes of the person using the lamp.

Reference being again had to the clamping means, comprising the pivoted jaws 3, said jaws at their clamping ends are preferably provided with plates 16 to which are attached cushions 18 preferably of suitable soft rubber.

The jaws 3 are adapted to be brought into clamping position by means of a lever 21, the head of which is fulcrumed between and to the plates 2 of the handle 1. The disposition of the clamping ends of the jaws is such that as they are brought into clamping position they will engage the object beginning at their forward ends. In this way, a better grip may be had on the supporting object. Further, by providing a cushion of rubber, as the clamping element, the jaws may be brought into clamping engagement with a supporting object and pressure applied to cause the gripping surfaces of the jaws to more firmly impinge on the article and insure holding against any vibration, in the event the lamp is clamped to a vibrating part.

From the foregoing description it will be apparent that I have devised a portable electric lamp adaptable to many and various uses, and as disclosed is capable of many modifications, and I do not wish to

be limited to the precise disclosure except as may be stated in the appended claims.

What I claim is:—

1. In a lamp and in combination with a light bulb and open wire guard surrounding said bulb, of a revoluble reflector shade for said bulb mounted within said guard, means arranged exteriorly of the guard and connected with said shade for turning the shade, and yielding means for holding the shade against vibration and in adjusted positions.

2. In a device of the character described, in combination, an open wire guard for electric lights, a reflector shade rotatably mounted within said guard, and means arranged exteriorly of the guard and connected to said shade for rotating the latter.

3. An open wire guard having a head plate to which one end of the wires of the guard are connected, a reflector within the guard, and a shaft journaled in the head plate and fixedly secured to and constituting the sole means of support for the reflector, said shaft projecting through the head plate to be manipulated from without the guard.

4. A guard for electric lights, having a head plate, a reflector adjustable within the guard, a shaft fixed to the reflector and journaled in the head plate, and means arranged exteriorly of the guard for adjustably securing the shaft and reflector in an adjusted position.

In witness whereof, I have hereunto affixed my hand this 16th day of November, 1923.

ERNEST A. HAVENS