

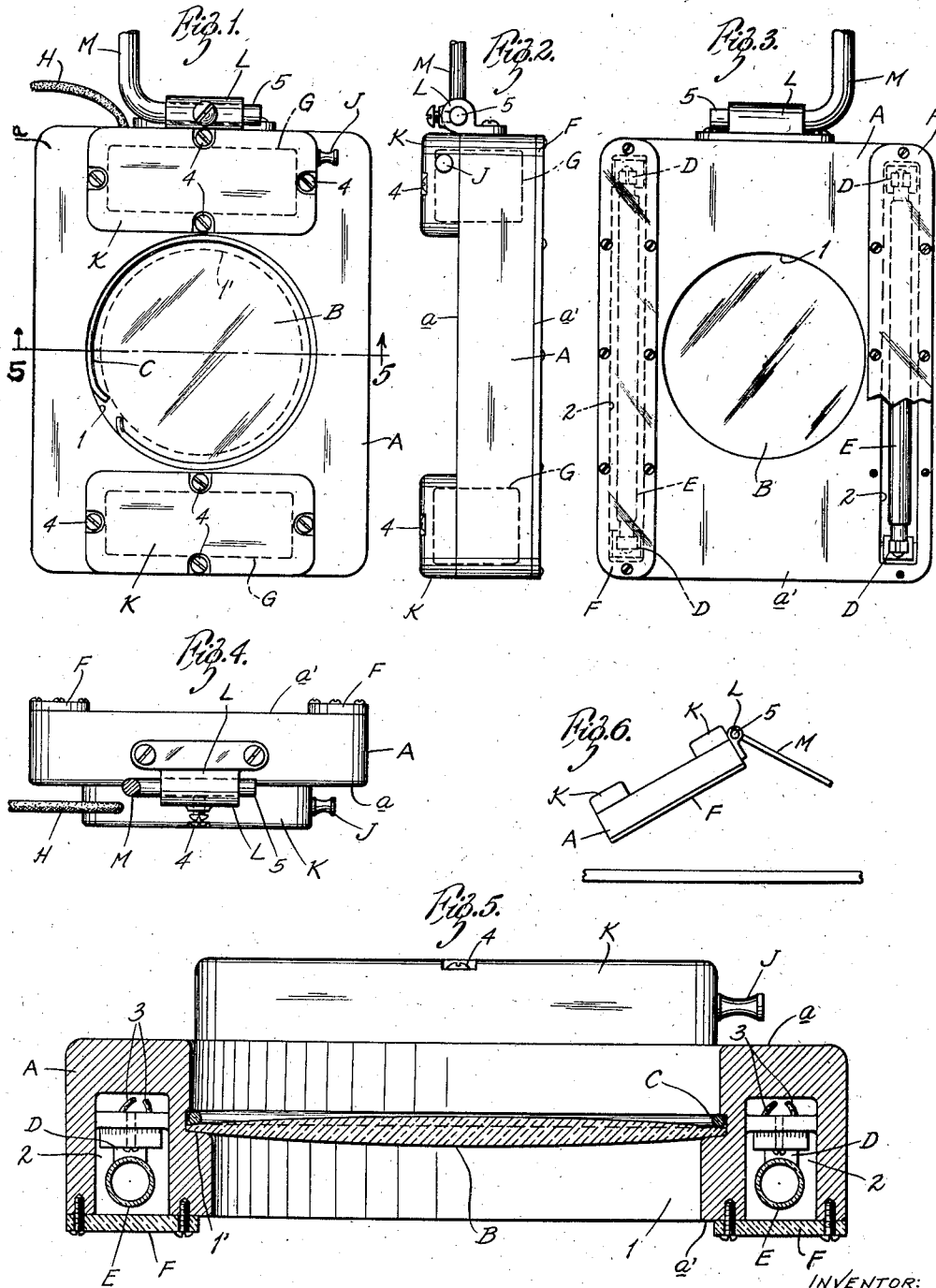
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INSPECTION LAMP

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INSPECTION LAMP

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3 Claims. (Cl. 88—39)

This invention relates to a certain new and useful improvement in inspection-lamps and has for its object the provision of a compact, durable, economically constructed, easily manipulated, and conveniently portable lamp especially, though not exclusively, adapted for enabling the efficient inspection of ordnance materials, small tools and machine parts, loaded caps, and other work and structures.

And with the above and other objects in view, my invention resides in the novel features of form, construction, arrangement, and combination of parts presently described and pointed out in the claims.

In the accompanying drawing,

Figure 1 is a plan view of an inspection-lamp embodying my invention;

Figure 2 is a side elevational view of the lamp;

Figure 3 is an inverted plan view of the lamp;

Figure 4 is an end view of the lamp;

Figure 5 is an enlarged transverse sectional view of the lamp taken approximately on the line 5—5, Figure 1; and

Figure 6 is a reduced side elevational view of the lamp as operatively disposed in illuminating position for facilitating work inspection.

Referring now in more detail and by reference characters to the drawing, which illustrates a preferred embodiment of my invention, the lamp includes a main or body-portion A constructed of any suitable preferably hard plastic or other rigid material, and which has preferably the rectangular, or somewhat oblong-rectangular, form and contour best seen in Figures 1 and 2.

The body-portion A is also of suitable thickness, as best seen in Figure 5, and is centrally provided or formed with an annular opening, as at 1, preferably midway the opposite top and bottom faces *a*, *a'*, respectively, of the body A counter-bored and recessed and thereby provided with an annular channel or way, as at 1', upon which a suitable magnifying disk or lens B is marginally rested and by means of a recess-engaging split spring-clamp or ring C detachably or removably secured.

The body A, upon opposite sides of its central aperture 1, is formed with longitudinally extending relatively narrow chambers or pockets 2, 2, which open to and upon the under face *a'* of body A and in each of which are suitably fixed and disposed spaced terminal clips D for removably seating suitable fluorescent or other suitable light tubes E, the chambers 2, 2, being preferably closed upon the under face *a'* of body A as by means of suitable preferably transparent mem-

bers or cover-plates F for dispersing the illuminating rays emanating from the tubes E upon the particular work being inspected.

Also formed in the body A and extending transversely thereof upon opposite sides of the opening 1 and intermediate the chambers 2, are relatively shallow chambers or pockets G opening to and upon the top face *a* of the body A and in each of which, while not here specifically shown, is suitably disposed electrical equipment co-operable with the lamps E and also electrically connected by means of wiring 3 with the clips or terminals D. Such equipments, in turn, are electrically connected one with the other and provided not only with a flexible conductor H for inclusion in any suitable electrical circuit, but also with a suitable opening and closing switch J, the chambers or pockets G being closed by means of suitable flanged cover-plates K detachably secured to and upon the body A as by fastening screws or the like 4.

Fixed upon one end of the body A, is a tubular hinge-member L for sleeve-wise accommodating the laterally projecting end 5 of a bracket-arm M for swingably supporting the lamp upon a wall or other support.

In use and operation, by means of the arm M, the lamp-body A and its lens B may be disposed at any selected illuminating angle with respect to the work W, as indicated in Figure 6, and enables facile, accurate, and precise inspection thereof.

The lamp comprises few parts, fulfills in every respect the object stated, and is efficient in the performance of its intended functions.

It should be understood that changes and modifications in the form, construction, arrangement, and combination of the several parts of the lamp may be made and substituted for those herein shown and described without departing from the nature and principle of my invention.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. An inspection-lamp including a unitary rectangular body-member having a forwardly presented flat face provided with an annular opening which is, in turn, counter-bored to provide a lens-accommodating annular channel, a magnifying lens in the channel, the body-member also having a pair of rectangular chambers respectively positioned on opposite sides of the recess adjacent to and parallel with the longitudinal margins of the body-member, said chambers opening upon the flat face, a fluorescent lamp-tube mounted in each chamber, and a pair of ad-

ditional chambers opening to and upon the opposite side of the body-member and extending transversely of the body-member at right angles to the first chambers for housing adjunctive electrical equipment connected to the lamp-tubes.

2. An inspection-lamp including a unitary rectangular body-member having a forwardly presented flat face provided with an annular opening which is, in turn, counterbored to provide a lens-accommodating annular channel, a magnifying lens mounted in said channel, the body-member also having a pair of rectangular chambers respectively positioned on opposite sides of the recess adjacent to and parallel with the longitudinal margins of the body-member, said chambers opening upon the flat face, a fluorescent lamp-tube mounted in each chamber, and a transparent plate removably mounted upon the flat face in dust-proof engagement therewith and extending over and across each of the chambers.

3. An inspection-lamp including a unitary rec-

5 tangular body-member having a forwardly presented flat face provided with an annular opening which is, in turn, counterbored to provide a lens-accommodating annular channel, a magnifying lens mounted in said channel, the body-member also having a pair of rectangular chambers respectively positioned on opposite sides of the recess adjacent to and parallel with the longitudinal margins of the body-member, said chambers opening upon the flat face, a fluorescent lamp-tube mounted in each chamber, a transparent plate removably mounted upon the flat face in dust-proof engagement therewith and extending over and across each of the chambers, 10 and a pair of additional chambers opening to and upon the opposite side of the body-member and extending transversely of the body-member at right angles to the first chambers for housing adjunctive electrical equipment connected to the lamp-tubes. 15 20

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