No. 675,724. Patented June 4, 1901.

G. GALSTER.

LAMP GUARD.

(Application filed Mar. 12, 1901.)

(No Model.)

Fig. 1.

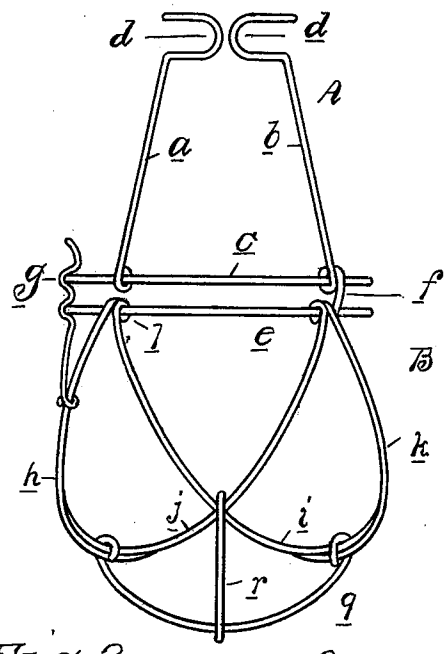


Fig. 3.

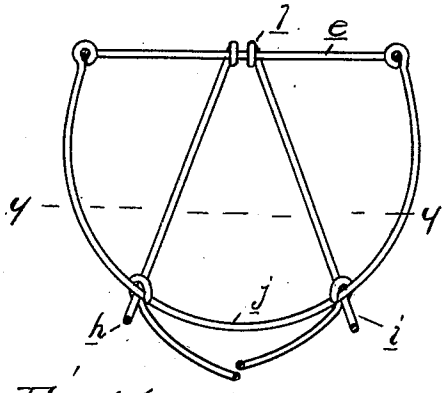


Fig. 4.

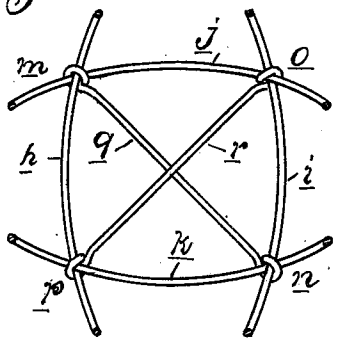
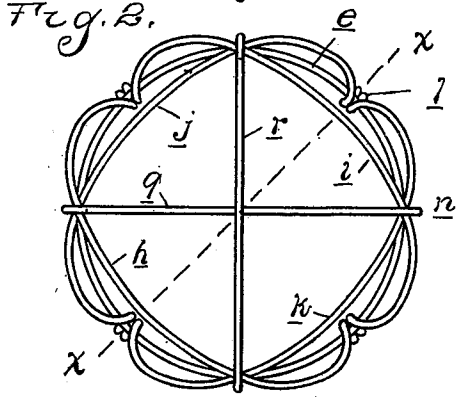


Fig. 2.



Witnesses
[illegible]

Inventor
George Galster
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE GALSTER, OF DETROIT, MICHIGAN.

LAMP-GUARD.

SPECIFICATION forming part of Letters Patent No. 675,724, dated June 4, 1901.

Application filed March 12, 1901. Serial No. 50,799. (No model.)

To all whom it may concern:

Be it known that I, GEORGE GALSTER, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Lamp-Guards, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to lamp-guards specially designed for protecting incandescent-lamp bulbs.

It is one object of the invention to obtain a construction in which the parts may be more easily assembled and the cost of manufacture consequently diminished.

It is a further object of the invention to form an effective guard for the lamp; and the invention therefore consists in the peculiar construction and arrangement of parts, as hereinafter described and claimed.

In the drawings, Figure 1 is an elevation of the lamp-guard. Fig. 2 is a bottom plan view thereof. Fig. 3 is a longitudinal section on line *x x*, Fig. 2. Fig. 4 is a horizontal section on line *y y*, Fig. 3.

The invention relates more particularly to the construction of the body portion of the guard, not to the means employed for securing the guard to the lamp-socket, and although the drawings show the guard provided with securing means this is not essential to the invention.

As shown, A designates the upper or clamping portion of the guard, comprising the arms *a b*, hinged at their lower ends to the ring *c* and at their upper ends provided with neck-loops *d* and *d'* for engaging the lamp-socket.

B represents the body portion of the guard, which forms the subject-matter of the present invention and is constructed as follows:

e is a wire ring or annulus secured in any suitable way to the portion A of the guard. As shown it is hinged by means of the links *f* and is secured on the opposite side by the hook *g*.

h i j k are four wire loops provided at their ends with eyes *l*, connected to the annulus *e*. These loops depend from said annulus and are arranged in pairs, which cross each other at the points *m n o p*, so as to form a quadrangle. The upper ends of the loop of each pair are preferably arranged adjacent to each other, while the loops lie in divergent planes, having their line of intersection substantially in the plane of the annulus *e*, as shown in Fig. 3. To form the bottom portion of the guard, as well as to secure the loops in position, the opposite corners of the quadrangle are connected by diagonal bars *q* and *r*, respectively connecting the angles *m n* and *o p*. These bars are provided with eyes embracing the crossing loops and are curved, so as to complete the bulbular form of the guard.

In the manufacture of the guard the various parts are first formed with their eyes open, so that they may be engaged with each other. The workman then assembles the parts by hand and clenches the eyes.

It will be understood that the cost of manufacture is chiefly the labor of assembling the parts and that the greater the number of clenches to be made the more time will be consumed. With my construction the number of clenches to be made is comparatively small, and at the same time the parts are so arranged as to form an effective guard and a structure which will permanently retain its shape.

What I claim as my invention is—

1. In a lamp-guard, a body portion comprising two pair of loops crossing each other to form a quadrangle, and a brace extending diagonally across said quadrangle connected at its opposite ends to the crossing loops and securing the latter in position.

2. In a lamp-guard, a body portion comprising two pair of loops crossing each other to form a quadrangle, and a pair of cross diagonal braces connected at their ends respectively to the four angles formed by the crossing loops and securing the latter in position.

3. In a lamp-guard, a body portion comprising an annulus two pair of loops crossing each other to form a quadrangle and connected at their ends to said annulus, and a brace extending diagonally across said quadrangle, its opposite ends connected to and securing in position said crossing loops.

4. In a lamp-guard, a body portion com-

prising an annulus, two pair of loops crossing each other to form a quadrangle the ends of each pair being adjacent and secured to said annulus and a brace extending diagonally across said quadrangle its opposite ends connecting to and securing in position said crossing loops.

5. In a lamp-guard, an annulus, two pair of loops secured to and depending from said annulus and crossing each other to form a quadrangle and downwardly-curved diagonal cross-bars secured at their ends respectively to the crossing portions of said loops.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE GALSTER.

Witnesses:
M. B. O'DOGHERTY,
H. C. SMITH.