

(No Model.)

J. JAEGER.
REFLECTOR.

No. 285,270.

Patented Sept. 18, 1883.

Fig. 1.

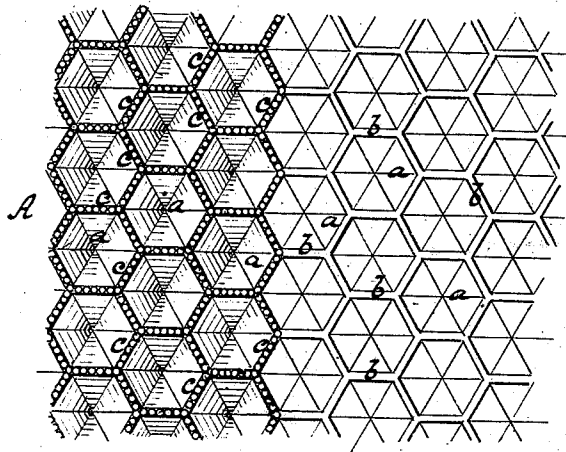


Fig. 2.



WITNESSES:

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INVENTOR

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UNITED STATES PATENT OFFICE.

JULIUS JAEGER, OF RUTHERFORD PARK, NEW JERSEY.

REFLECTOR.

SPECIFICATION forming part of Letters Patent No. 285,270, dated September 18, 1883.

Application filed April 19, 1883. (No model.)

To all whom it may concern:

Be it known that I, JULIUS JAEGER, a citizen of the United States, residing at Rutherford Park, in the county of Bergen and State of New Jersey, have invented new and useful Improvements in Reflectors, of which the following is a specification.

This invention relates to a plate for a reflector, said plate being provided with triangular, square, or polygonal depressions separated from each other by sharp or narrow ridges of uniform height, said depressions being of such form that they fit each other so as to leave no flat spaces between them. On the ridges are formed small beads, whereby dark lines in the reflection are prevented.

In the accompanying drawings, Figure 1 represents a plan or face view of one of my plates on an enlarged scale. Fig. 2 is a partial section of the same on a larger scale than the previous figure.

Similar letters indicate corresponding parts.

In the drawings, the letter A designates a plate for a reflector, which may be made of sheet metal, porcelain, glass, or any other material suitable for the purpose, and which, when made of sheet metal or other opaque material, is coated on its surface with silver or other material capable of receiving a bright polish, while when said plate is made of glass its back is coated with quicksilver or equivalent material, so as to produce the desired reflecting-surface, all of which is well known in the art, and forms no part of my invention.

In order to obtain a reflector which, when exposed to the flame of a lamp, produces a reflection of uniform brightness throughout its entire area, I provide my plate with depressions *a*, of triangular, square, or polygonal shape, which are separated from each other by sharp or narrow ridges *b*, of uniform height, and which are so formed that no flat spaces are left between them. For this reason pentagonal or octagonal or circular depressions will not answer, since, if either of these forms is used for the depressions, flat spaces of various shapes will be formed between said depres-

sions, and the reflection produced by such a plate shows dark lines or spots. When the depressions are of the form above described, so that they are separated from each other by sharp or narrow ridges *b*, as shown in the drawings, without flat spaces, the reflection produced is almost of a uniform brightness; but I have found that the effect can be improved by forming on these ridges small beads *c*, as shown in the drawings, said beads serving to prevent the formation of any dark lines in the reflection.

My plates can be used with advantage in conical, spherical, or parabolic reflectors, and also in reflectors of the form of a truncated pyramid, such as are in common use. My invention, however, is applicable to any reflecting-surface in which the above-described depression can be formed.

I am aware that plates for reflectors have been used which are provided with circular concavities, and also such provided with diamond-shaped projections, and I distinctly disclaim plates of this form.

What I claim as new, and desire to secure by Letters Patent, is—

1. A reflecting-surface provided with triangular, square, or polygonal depressions which are separated from each other by sharp or narrow ridges of uniform height, and which are of such a form as to leave no flat spaces between them, substantially as shown and described.

2. A reflecting-surface provided with triangular, square, or polygonal depressions which are separated from each other by sharp or narrow ridges of uniform height, said ridges being formed with beads, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

JULIUS JAEGER. [L. S.]

Witnesses:

W. HAUFF,
H. G. BELL.