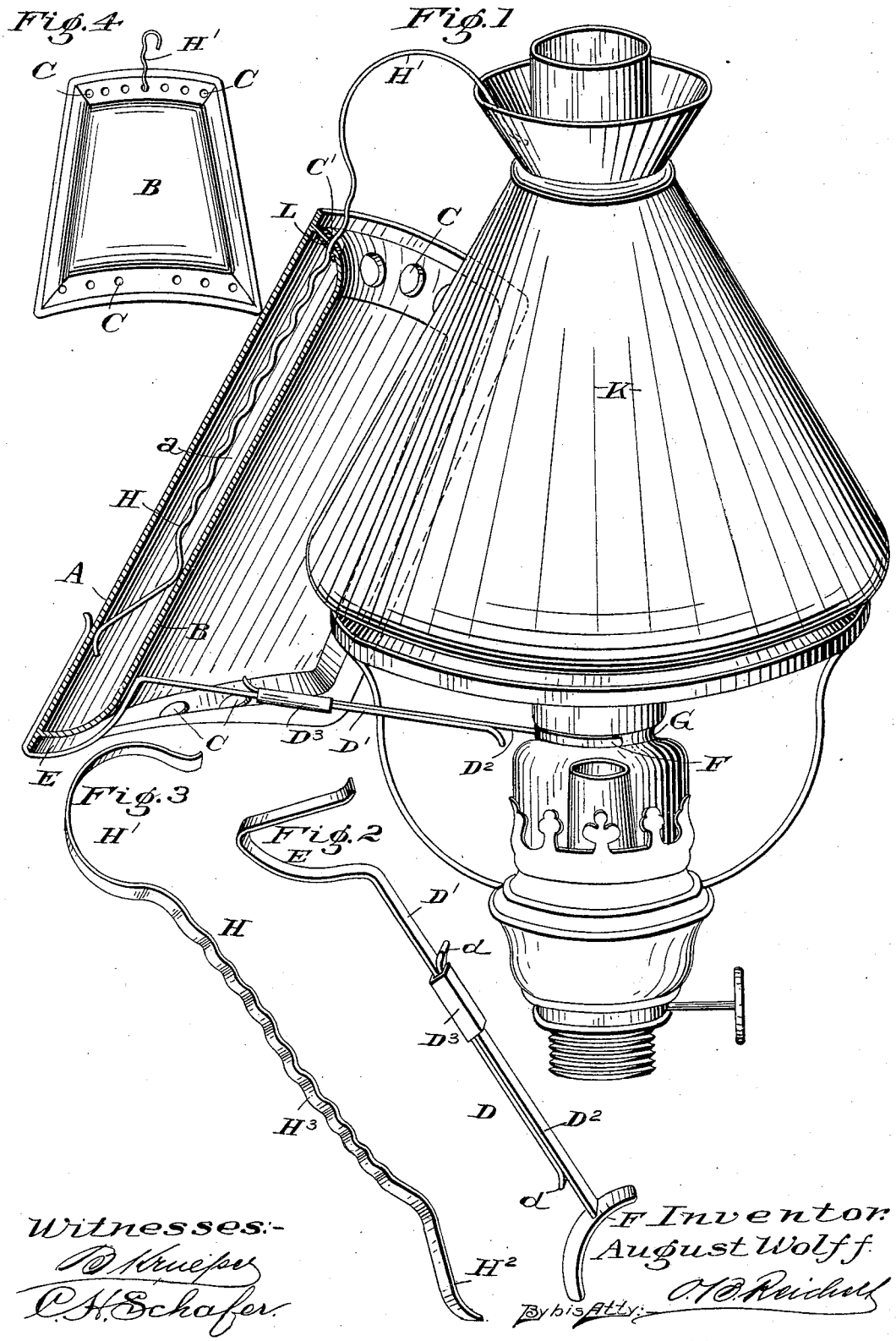
(No Model.)

A. WOLFF.

LAMP SCREEN.

No. 589,489. Patented Sept. 7, 1897.



Witnesses:-
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

AUGUST WOLFF, OF BERLIN, GERMANY.

LAMP-SCREEN.

SPECIFICATION forming part of Letters Patent No. 589,489, dated September 7, 1897.

Application filed September 19, 1895. Serial No. 562,991. (No model.)

To all whom it may concern:

Be it known that I, AUGUST WOLFF, optician, a citizen of the Kingdom of Prussia, and a resident of Berlin, in the Kingdom of Prussia and German Empire, have invented certain new and useful Improvements in Lamp-Screens, of which the following is a specification.

My invention relates to an improved screen for lamps and other illuminating-burners, which will protect the eyes from the glare or brilliancy of the light and which will likewise deflect and carry off the heat and protect the head-nerves from the pernicious warmth and discomfort of the rays passing through the screens which have heretofore been used.

My invention consists, primarily, in making the screen of two sheets of pasteboard united at the edges, one of said sheets being bowl-shaped and perforated at the top and bottom, the two sheets being held a suitable distance apart to admit of the circulation of air between them; and the invention further consists in providing such a screen with novel suspension and supporting brackets, as will hereinafter appear.

In the accompanying drawings, Figure 1 shows a lamp equipped with such a screen, the latter being represented in vertical cross-section and supported by a bar, as shown in Fig. 2, and suspended by a hooked suspender represented by Fig. 3. Fig. 4 shows a perspective view of the screen-body alone, drawn upon a reduced scale.

The segmental cylindrically or segmental conically shaped front sheet A is connected with the back sheet B at its edges by folding and pasting or by any well-known or preferred manner used for holding such boards together. The sheet B has the same form generally as the sheet A, but its four edges are bent inwardly to form a hollow, bowl-like body, the rims of which are connected with those of the front sheet, and thus provides an air-space *a* between said sheets to allow for the circulation of air, as will hereinafter appear.

In the horizontal lower and top edges of the sheet B a series of holes C are provided, which admit of the free entrance and discharge of air, thus allowing a free circulation of air between the sheets. The suspension-bar H has a hook H′ at its upper end, a bow-shaped curve H^2 at its lower end, and undulations H^3 at its middle or body portion, and the middle hole C′ of the series at the top of the screen has a metal eyelet L secured therein to prevent the hole from tearing out. The hook at the end of the bar H engages with the lamp shade or chimney, the curve H^2 at the opposite end thereof presses between the sheets A and B of the screen to support the same, and the undulations H^3 of said bar slip through the eyelet L and are adjusted therein to raise or lower the screen to any required height.

A supporting-bar D, formed of two sections D′ and D^2, united at their overlying ends by a sleeve D^3, which allows the said sections to be adjusted one upon the other, the ends *d* of the said sections being bent out to prevent them from being withdrawn from the sleeve. The supporting-bar may thus be adjusted to the full length of said bar-sections D′ and D^2.

The outer end of the bar-section D is bent to form a hook E, into which the lower edge of the screen fits and rests, and the inner end of the bar-section D^2 has a curved plate F, secured thereto to bear against the neck of the lamp or lamp-chimney, and thus support the screen at any required angle upon the lamp.

In order to raise or lower the screen, the bar H is pushed in and out between the sheets A and B, the bar-shaped curve H^2 pressing between them to hold the screen securely, but allow the bar to be drawn in and out through the eyelets from one undulation to the other, thus adjusting the height of the screen upon the lamp. The screen-bar H is readily pulled out or pushed in, the sections being held with sufficient security by the said sleeve to support the lower end of the screen at any distance from the lamp. The means herein described for supporting the screen upon the lamp are simple and inexpensive and may be easily adjusted.

An inexpensive screen may be formed in the manner hereinbefore described, which may be used by artisans, artists, or others who may thus work in close proximity to the light without burning the eyes by the heat from the flame, which may be adjusted to any sort of light or burner.

The ventilation of the screen is complete. The inner side of the screen will be heated by the lamp, and the air contained between the

sheets of the screen will be also heated. The air thereby being specifically lightened will rise and escape through the holes of the top rim, while new cold air will enter the lower edge. By the draft of air thus caused the heat is turned off from the front sheet and the latter remains cool.

The two sheets of paper A and B have four straight marginal edges, glued or otherwise fastened together in a simple inexpensive manner, to provide a light, strong, and durable device.

I claim as my invention and desire to secure by Letters Patent—

1. An article of manufacture comprising a lamp-screen, made of two pieces of heavy paper, each having four matched or corresponding sides, one of said sheets being made bowl-like to provide an intervening space between said sheets, the lower and top edges of one of said sheets being provided with holes for ventilation, and the said sheets united at each of their adjacent edges to form a hollow ventilated conical paper segment, substantially as described.

2. In an adjustable lamp-screen, the combination of two sheets of paper united at their edges and formed to provide an intervening space between their faces, the lower and top edges of one of said sheets being perforated, and an undulated bar, having a hooked top to engage the top of the chimney, passing into the said space between said sheets, and having a frictional engagement with the same, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name in the presence of two subscribing witnesses.

AUGUST WOLFF.

Witnesses:
HERMANN GERNHARDT,
RICH. SCHERPE.