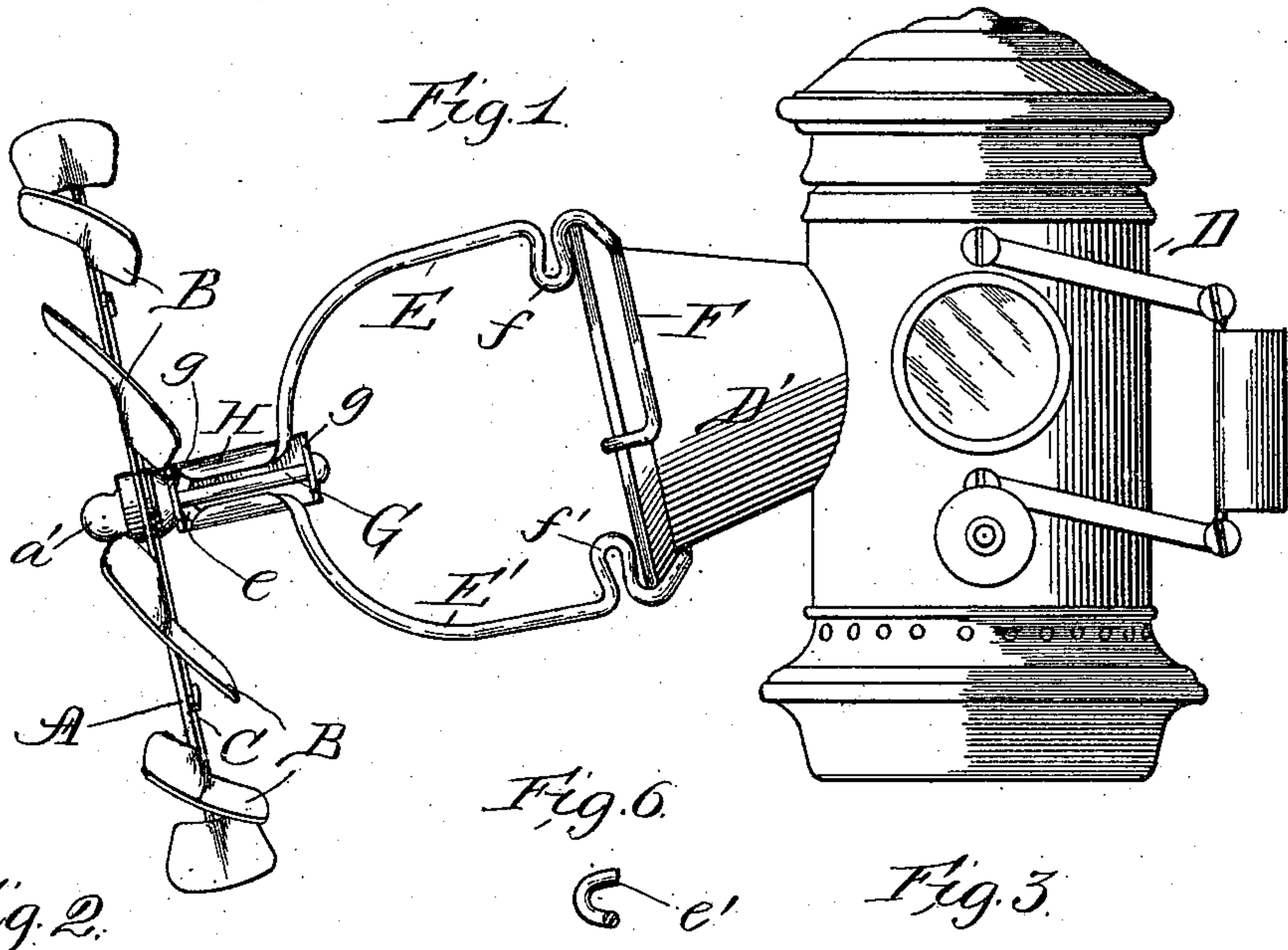


(No Model.)

C. KOEBEL.  
ATTACHMENT FOR BICYCLE LAMPS.

No. 575,119.

Patented Jan. 12, 1897.





# UNITED STATES PATENT OFFICE.

CAMILLUS KOEBEL, OF CHICAGO, ILLINOIS.

## ATTACHMENT FOR BICYCLE-LAMPS.

SPECIFICATION forming part of Letters Patent No. 575,119, dated January 12, 1897.

Application filed September 20, 1895. Serial No. 563,070. (No model.)

*To all whom it may concern:*

Be it known that I, CAMILLUS KOEBEL, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Attachment for Bicycle-Lamps, of which the following is a specification.

Speaking in general terms, my attachment consists of a rotatable disk adapted to be secured upon a bicycle-lamp in front thereof and to be rotated by the pressure against the wind when the bicycle is moving. This disk may have any suitable figures or designs upon its face and is provided with wings upon its periphery, whereby as the bicycle is propelled the disk will be rotated and a peculiar and novel effect, pleasing to the eye, will be produced, as well as one indicating that the bicycle is approaching; and my invention consists in the features and details of construction hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side elevation showing my device attached to a bicycle-lamp; Fig. 2, a front view thereof; Fig. 3, a plan view of the spring clamp device for holding the disk in a rotatable manner in front of the lamp; Fig. 4, a side view of a modified form of clamp device; Fig. 5, a plan view of the same; and Fig. 6, a section on line 6 of Fig. 3, showing the shape of the extreme free end of the clamp.

In constructing my device I make a disk A, of any desired size and of any material suitable for the purpose desired, and arrange upon its edge or periphery a number of wings B. These wings may be stamped out from the same blank as the disk and bent to the proper angle, or they may be made separate and secured to the disk. They may be of any number and size and arranged on the disk right-handed or left-handed, as may be preferred, which will determine the direction of rotation of the disk.

For the purpose of clearly illustrating the invention I have selected one of many forms and designs for the disks, and I will describe the construction of the same, although it will be understood that other forms and designs may be employed. The disk A is not solid, but is a skeleton, the rim or a tongue *a* therefrom running spirally to the center to form a volute. In order to preferably strengthen

the disk, radially-extending strips *b* are left unstamped. Preferably upon the back of the disk I secure a flat transparent plate or disk C, preferably made of celluloid, although other materials may answer the purpose. This plate may be colored or supplied with any desired design.

The clamping device for securing the disk to the reflector D' of any bicycle-lamp, such as D, consists, preferably, of a single piece of wire which is bent as shown in the drawings. In the form shown in Figs. 1 and 3 the wire is bent to form two curved spring-arms E E' and a loop *e* at the forward end, while the free ends of the wire are bent to form small loops or turns *f f'* and two similar but oppositely-disposed curved arms F F' on an arc of a circle. The extreme ends *e' e''* of the wire are then bent to engage the edge of the reflector and press against the front thereof. As shown in Fig. 1, the curved portions F F' engage behind the flaring mouth of the reflector and the small loops *f f'* press against the front.

The disk is rotatably mounted upon the clamping device by means of a small pin or spindle G, which bears in lugs *g g* in a metallic piece H, whose sides are turned upon the loop *e* and thereby securely bound thereto. The end of the pin is screw-threaded to receive a head or nut *a'*, whereby the disk is fastened upon the pin.

In attaching the device to a lamp the portions F F' are stretched apart over the mouth of the reflector, and in springing back engage the reflector and hold the disk in axial alignment to the light. When the bicycle is propelled, the disk is caused to revolve and the light from the lamp is affected in a pleasing manner and gives a beautiful and novel appearance and at the same time indicates that the bicycle is approaching, or otherwise the disk would not rotate and change the appearance of the light. Furthermore, with my attachment it will be possible to tell whether it is a bicycle or other vehicle when carrying a light.

As stated above, many designs may be employed for the disk, which may be of the skeleton form shown or simply have a rim to which is attached the sheet of celluloid or other



transparent material, upon which the desired designs or figures may be arranged to produce a change in the light or of the colors in rapid succession. This sheet is preferably  
5 colored as desired.

In Figs. 4 and 5 I have shown a modified form of clasp having curved arms J J' and long curved loops K K' at right angles thereto for fitting over and engaging the mouth of  
10 the reflector. Many other forms may be employed, but they are considered to come within the scope of my invention.

Although I have shown and described more or less precise forms and details of construction I do not intend to be understood as limiting myself thereto, as I contemplate changes in form, the proportion of parts and substitution of equivalents as circumstances may suggest or render expedient and without departing from the spirit of my invention.  
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I claim—

1. An attachment for a bicycle-lamp comprising a rotatable disk arranged in front of the face or lens of the lamp and a clamping  
25 device for securing the disk to the lamp in said position whereby as the bicycle is moved, the air-pressure will rotate the disk.

2. An attachment for a bicycle-lamp comprising a rotatable disk provided with wings  
30 upon its periphery and arranged in front of the face or lens of the lamp and a clamping device for securing the disk to the lamp and holding it in said position whereby as the bicycle is moved, the air-pressure will rotate  
35 the disk.

3. An attachment for a bicycle-lamp, comprising a rotatable skeleton disk arranged in front of the face or lens of the lamp, a sheet of transparent material secured thereto,  
40 wings arranged upon the periphery of the disk whereby as it is moved, the air-pressure will rotate the disk, and a clamping device for securing the disk to the lamp.

4. An attachment for a bicycle-lamp comprising a rotatable disk having wings upon  
45 its periphery arranged in front of the face or lens of the lamp, and a continuous wire bent

to rotatably hold the disk and also to secure it upon the lamp.

5. An attachment for a bicycle-lamp comprising a rotatable disk having wings arranged upon its periphery, and a clamping device for securing the disk to the lamp, consisting of a wire having spring-arms E E' and portions F F' at an angle to said arms for engaging the lamp.  
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6. An attachment for a bicycle-lamp comprising a rotatable skeleton disk, a sheet of transparent material secured thereto, wings arranged upon the periphery of the disk, a continuous wire clamp for holding the disk upon the lamp and consisting of spring-arms E E', portions F F' at an angle to said arms for engaging the reflector of the lamp, and a loop *e* adjacent to the disk and means for rotatably mounting the disk upon the loop *e*.  
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7. An attachment for a bicycle-lamp comprising a rotatable disk having wings arranged upon its periphery, a continuous wire clamp for holding the disk in front of the lamp and consisting of spring-arms E E', loops *f f'* pressing in front of the reflector, and portions F F' engaging the back of the reflector, the free ends of the wire being bent at an angle to the portions F F' and bearing against the front of the reflector, and means for attaching the disk in a rotatable manner to the clamp device.  
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8. An attachment for a bicycle-lamp comprising a rotatable disk having wings arranged upon its periphery, a continuous wire clamp for holding the disk in front of the lamp and consisting of bent portions at its free ends engaging the lamp-reflector and a loop *e*, a metallic piece H having its sides bent over upon the loop and provided with lugs *g g* having bearings, and a pin G, rotatably mounted in said bearings and carrying the disk.  
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Witnesses:

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