

HENRY McGRAW.
Improvement in Oil Cups.

No. 125,602.

Patented April 9, 1872.

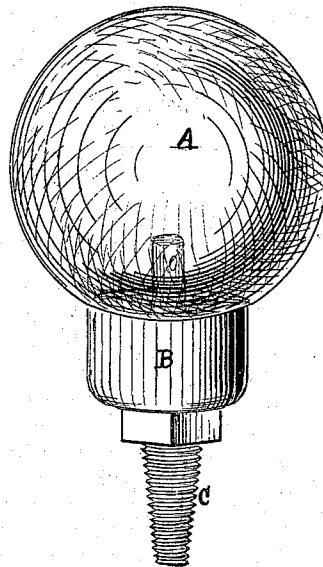


Fig. 1

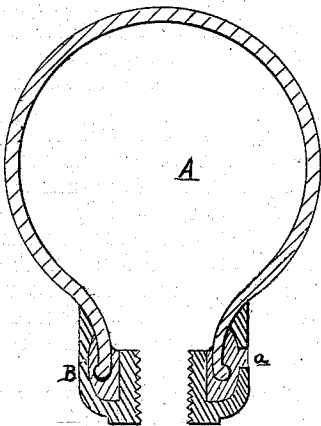


Fig. 2

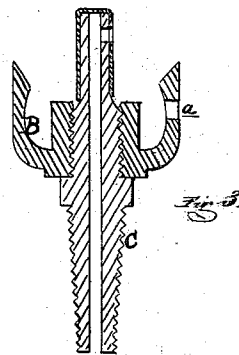


Fig. 3

ATTEST:

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INVENTOR:

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UNITED STATES PATENT OFFICE.

HENRY MCGRAW, OF DETROIT, MICHIGAN.

IMPROVEMENT IN OIL-CUPS.

Specification forming part of Letters Patent No. 125,602, dated April 9, 1872.

To whom it may concern:

Be it known that I, HENRY MCGRAW, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Oil-Cups; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is an elevation of my improved oil-cup. Fig. 2 is a vertical section of the globe and collar. Fig. 3 is a similar section of the stem and collar.

Like letters refer to like parts in each figure.

The nature of this invention relates to an improved method of securing metallic collars to the necks of globular glass oil-cups in such a manner that the said globular cups cannot be loosened from their collars in the vibration of the machinery to which they may be attached. The invention consists, first, in the peculiar construction of the collar; and second, in securing the neck of the cup therein by means of a band of soft metal, into which the neck of the cup is inserted, while the former is contained in a groove of the collar in a fused state.

In the drawing, A represents a glass oil-cup, generally globular in form, with an opening at the bottom through a neck having an external encircling flange or rim, and which cup is well known, being in general use. B is my improved collar, having a female screw cut in its central passage to screw it on a corresponding thread cut on the upper part of a hollow feed-stem, C, which is secured into the bearing to be lubricated. The said stem has a lateral aperture at the top, which is covered by a cap having a coincident aperture, through which the outflow of oil from the cup may be regulated.

I expressly disclaim the invention of the stem shown, it merely being shown to illus-

trate the application of my improvement to oil-cups of its class. The upper outer flange of my collar is carried up to and fits the contour of the globe as it approaches the neck, and in one side there is formed an aperture, *d*. To secure the globe to the collar, I place the latter on top of a stove or over a heated plate, and pour into the encircling recess of the collar any suitable soft metal in a fused state, filling the recess to the plane of the aperture *d*; then, protecting the left hand with a thick cloth, I take between the thumb and fingers the collar, and stopping the aperture *d* with the right, I insert the neck of the globular cup and press it to the position shown in Fig. 2, which causes the fused metal to fill the entire cavity of the collar, any excess of metal being allowed to escape at the aperture, and is immediately wiped off, the contained metal soon setting and forming a band for the neck. To better hold the globe, the exterior wall of the recess is curved inwardly toward the top, as shown. In order to protect the threads of the collar, a plug should be screwed into it, which is afterward removed at the completion of the process. In lieu of the soft metal the brimstone or sulphur of commerce may be used, or any equivalent material which sets sufficiently hard after cooling, and which will not be effected by the lubricant.

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

1. The metallic collar B, constructed as described, for the purpose specified.

2. Securing the collar B, constructed as described, to the neck of a globular glass cup, A, with soft metal or other suitable material while in a fused state, substantially as set forth.

HENRY MCGRAW.

Witnesses:

H. F. EBERTS,
N. S. SPRAGUE.