

(No Model.)

O. BERNZ.  
PULL HANDLE.

No. 344,617.

Patented June 29, 1886.

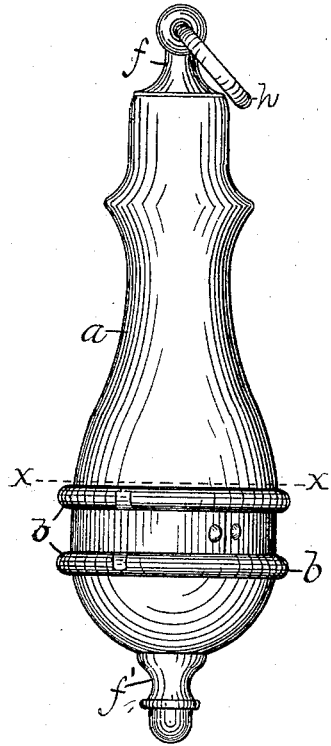


Fig. 1.

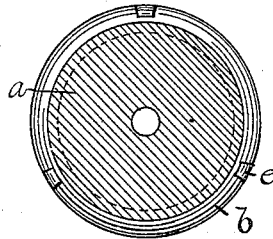


Fig. 3.

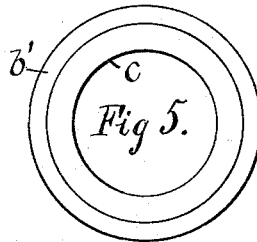


Fig. 5.

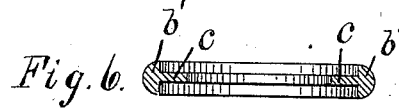


Fig. 6.

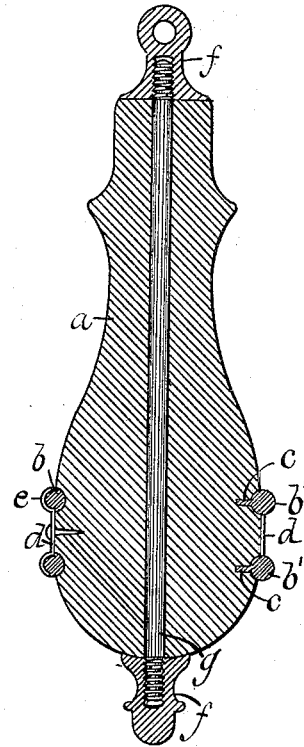


Fig. 2.

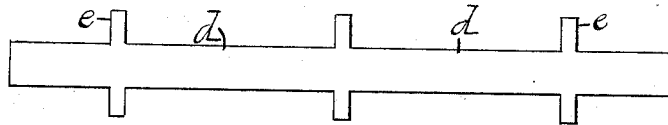


Fig. 4.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

OTTO BERNZ, OF NEWARK, NEW JERSEY.

## PULL-HANDLE.

SPECIFICATION forming part of Letters Patent No. 344,617, dated June 29, 1886.

Application filed April 3, 1886. Serial No. 197,648. (No model.)

*To all whom it may concern:*

Be it known that I, OTTO BERNZ, a citizen of the United States, residing in Newark, Essex county, New Jersey, have invented certain new and useful Improvements in Pull-Handles, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention consists in the combination, with a pull-handle having a groove in its periphery, of a ring of yielding material secured in the groove by cement, and in the combination, with a pull-handle having a yielding ring fitted to a groove in its periphery, of a metal band secured upon the handle and provided with projecting ears adapted to hold the ring in the said groove, and in specific constructions therefor.

In the drawings, Figure 1 is a side view of the pull-handle. Fig. 2 is a central longitudinal section of the same, showing two forms for the rings. Fig. 3 is a transverse section on the line  $x x$  in Fig. 1. Fig. 4 is a plan of the metal band before application to the handle. Fig. 5 is a plan of the flanged ring, which is shown applied to the handle on the right in Fig. 2; and Fig. 6 is a central transverse section of the same.

$a$  is the handle.  $b$  and  $b'$  are buffers consisting in rings of yielding material, the rings shown at  $b'$  in Fig. 2, and in Figs. 5 and 6, having inwardly-projecting flanges,  $c$ .

$d$  is a metal band applied to the handle between the rings, and having ears  $e$  bent over the said buffers, to hold the same within grooves formed in the periphery of the handle to receive them.

$f$  and  $f'$  are nuts at the ends of the bolt  $g$ , passing through the center of the handle in the usual manner to carry a fastening-eye,  $h$ , which is connected to the cord or other device to which the handle is to be applied.

The rings of both forms are made of yielding material, and adapted to be sprung over the end of the handle into the grooves therein, and are usually made of rubber, since such substance is particularly adapted for a buffer. The flange  $c$  is formed on the ring  $b'$ , to afford a larger surface for the adhesion of cement when used.

The rings may be made with notches to receive the ears  $e$  of the metal bands  $d$ , or such ears may be merely pressed into the surface of the rings and sunk below the same, to prevent their interfering with and scratching any surface in contact with the buffers.

The bands  $d$  may be provided with an inscription, as shown in Figs. 1 and 4, as a label or advertisement by which the name of the manufacturer of the device to which the handle is attached, as well as the handle itself, may be advertised to those operating the handle. I usually cut the blank for such band out of sheet metal first and bend the ears  $e$  either just before or in the act of applying the same to the handle.

It is obvious that the ears may be formed at only one side of the band  $d$ , when only one ring is used, and that any convenient number of such ears may be employed on either or both sides of the band.

It is evident that when the rings are cemented in the handle the band may be omitted, except when the inscription thereon is desired, and also that in place of an inscription of the character shown herein an ornamental design may be inserted upon the surface of the band.

Having thus set forth the nature of my invention, I claim the same in the following manner:

1. The combination, with a pull-handle having an annular groove in its periphery, of a ring of yielding material provided with an inwardly-projecting flange fitted to said groove and secured therein by cement, as and for the purpose set forth.

2. The combination, with a pull-handle having a groove in its periphery and a ring of yielding material fitted within the same, of a metal band having ears fitted over the ring and clamping the same to the handle, as and for the purpose set forth.

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

OTTO BERNZ.

Witnesses:

HENRY J. MILLER,  
HENRY J. THEBERATH.