G. W. KNAPP.

Securing Handle to Tin-Cup.

No. 205,653. Patented July 2, 1878.

Fig. 1.

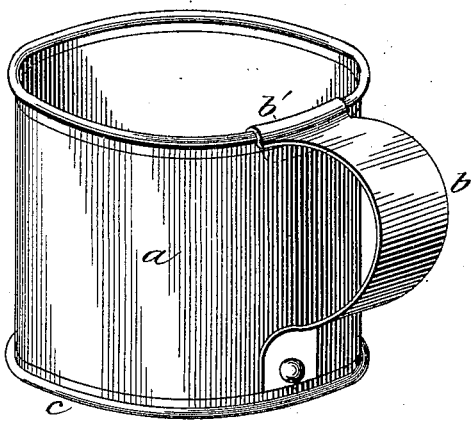


Fig. 2.

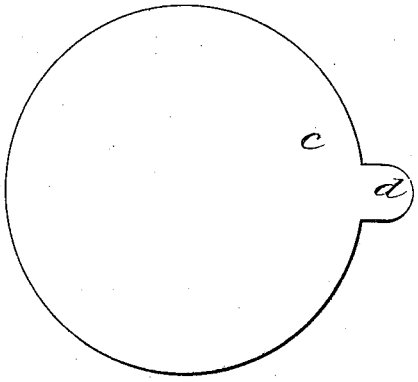


Fig. 3.

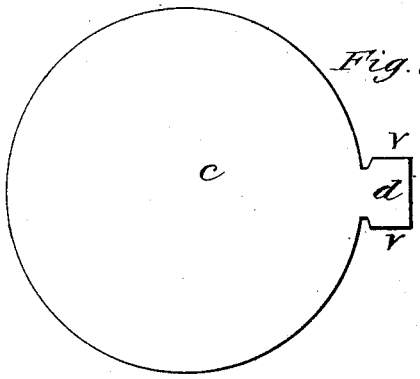


Fig. 4.

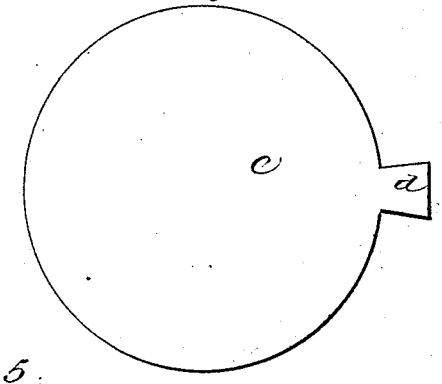


Fig. 5.

Fig. 6.

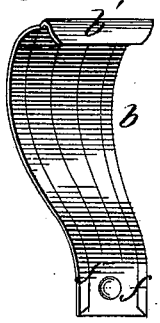
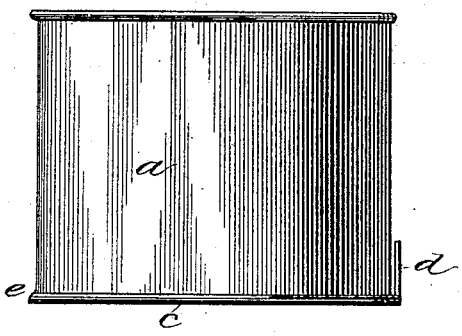


Fig. 7.



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UNITED STATES PATENT OFFICE.

GEORGE W. KNAPP, OF BALTIMORE, MARYLAND, ASSIGNOR TO HIMSELF, JOHN C. MATTHAI, AND JAMES E. INGRAM, OF SAME PLACE.

IMPROVEMENT IN SECURING HANDLES TO TIN CUPS.

Specification forming part of Letters Patent No. **205,653**, dated July 2, 1878; application filed June 10, 1878.

To all whom it may concern:

Be it known that I, GEORGE W. KNAPP, of Baltimore, in the county of Baltimore and State of Maryland, have invented a new and useful Improvement in Securing Handles to Tin Cups, of which the following is a specification:

My invention relates to certain improvements in the construction of sheet-metal cups which are provided with handles.

Usually the handle has been attached to the body by means of rivets and solder, and numerous efforts have been made to improve the method of securing the handle to the cup.

The present invention has for its object to produce a cheaper and more durable cup; and consists in the manner hereinafter described of securing the handle.

Figure 1 is a perspective view of a cup embodying my improvement. Fig. 2 is a view of the blank for the bottom. Fig. 3 is a view of same, showing a modified form of extension. Fig. 4 is a view of same, showing another form of extension. Fig. 5 is an edge view of bottom, the flange being turned. Fig. 6 is a view of the handle. Fig. 7 is a side elevation of the cup previous to attaching the handle.

The letter *a* represents a cylinder, forming the body of the cup. *b* is the handle; *c*, the bottom, which is a disk or circular plate blanked out in the usual manner, and provided on the circumference with a radial extension or projection, *d*. (See Figs. 2, 3, and 4.)

The edge or circumference of the bottom is turned up, forming a flange, *e*, in the usual manner, (see Fig. 5,) the extension then assuming an upright position.

In blanking out the bottom the extension *d* is cut from the waste part of the sheet metal. Thus no additional cost is incurred in producing this blank.

It will be observed the particular form of the extension *d* is not material, the object being to provide the bottom with an extension cut from the waste, to which the handle may be fastened.

The form of extension shown in Fig. 3 is adapted to have its edges V V turn or lap over to inclose the lower part of handle, instead of being inclosed by the grooves of the handle.

When the bottom is placed on the cylinder the extension *d* comes on the outer side. (See Fig. 7.) The edges of the handle are turned over inward in the usual manner, and thus form on each side at the lower end a groove, *f*. (See Fig. 6.) The upper part of the handle turns downward, and forms a clamp, *b'*, which is adapted to conform to and fit over the rim of the cup, as seen in Fig. 1, to which it is soldered, in this respect differing from the method of fastening shown in my patent of December 4, 1877, in not passing the bent part *b'* through a slot below the beaded edge of can. The grooves *f* receive the upward-projecting extension *d*. The bottom and cylinder are crimped in the usual manner, which binds together the lower part of handle and the extension, and the parts are then soldered.

By this construction the lower part of handle is firmly secured, and, should the solder be melted, will not become detached.

The handle is so bent as to require the upper part to be sprung over the rim, thereby causing it to clamp the cup.

My improvement is equally well adapted to other vessels having similar handles—such, for instance, as stew-pans or sauce-pans.

Having described my invention, I claim and desire to secure by Letters Patent—

1. The improvement in securing handles to tin cups, consisting of a bottom having an upward-projecting extension inclosed in the side grooves formed upon lower end of the handle in the usual manner, as set forth.

2. The sheet-metal bottom, flanged in the usual manner, and provided with the extension *d*, of any suitable shape, adapted to be fastened to the handle of tin cups or other sheet-metal vessels, as set forth.

3. The improved sheet-metal vessel, consisting of cylindrical body *a*, having a bottom provided with the upward-projecting extension *d*, which is secured to the lower end of handle *b*, the upper part *b'* of which clasps the rim of the vessel, as shown and described.

GEORGE W. KNAPP.

Witnesses:
CHS. B. HARMER,
JOHN J. GRINDALL.