

(No Model.)

J. MUSGROVE.
HANDLE FOR COVERS OF VESSELS.

No. 302,929.

Patented Aug. 5, 1884.

Fig. 1.

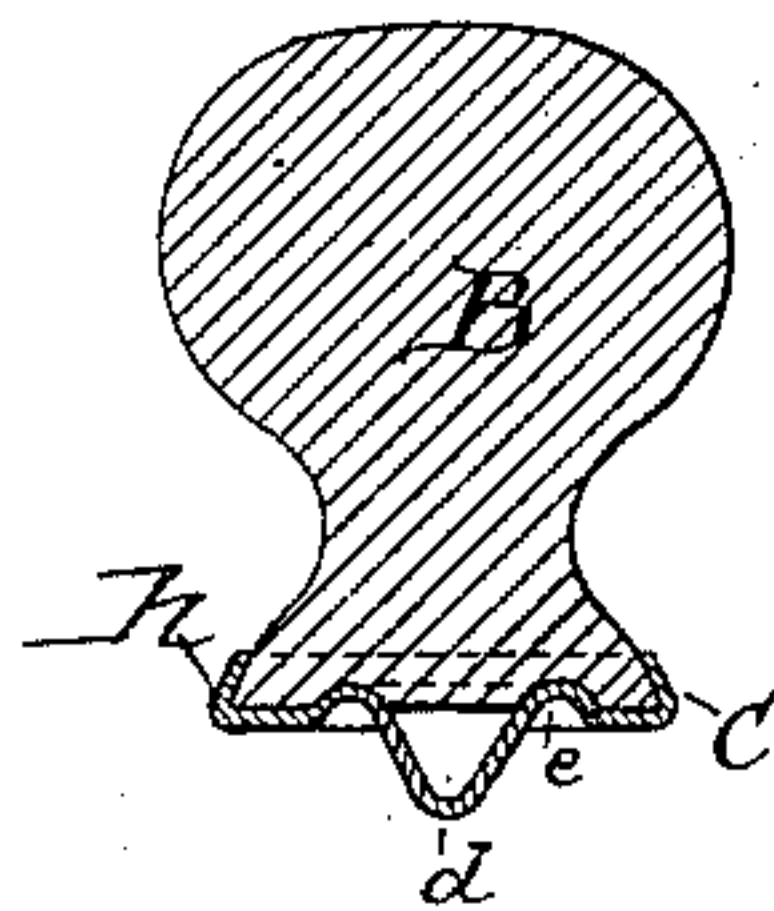
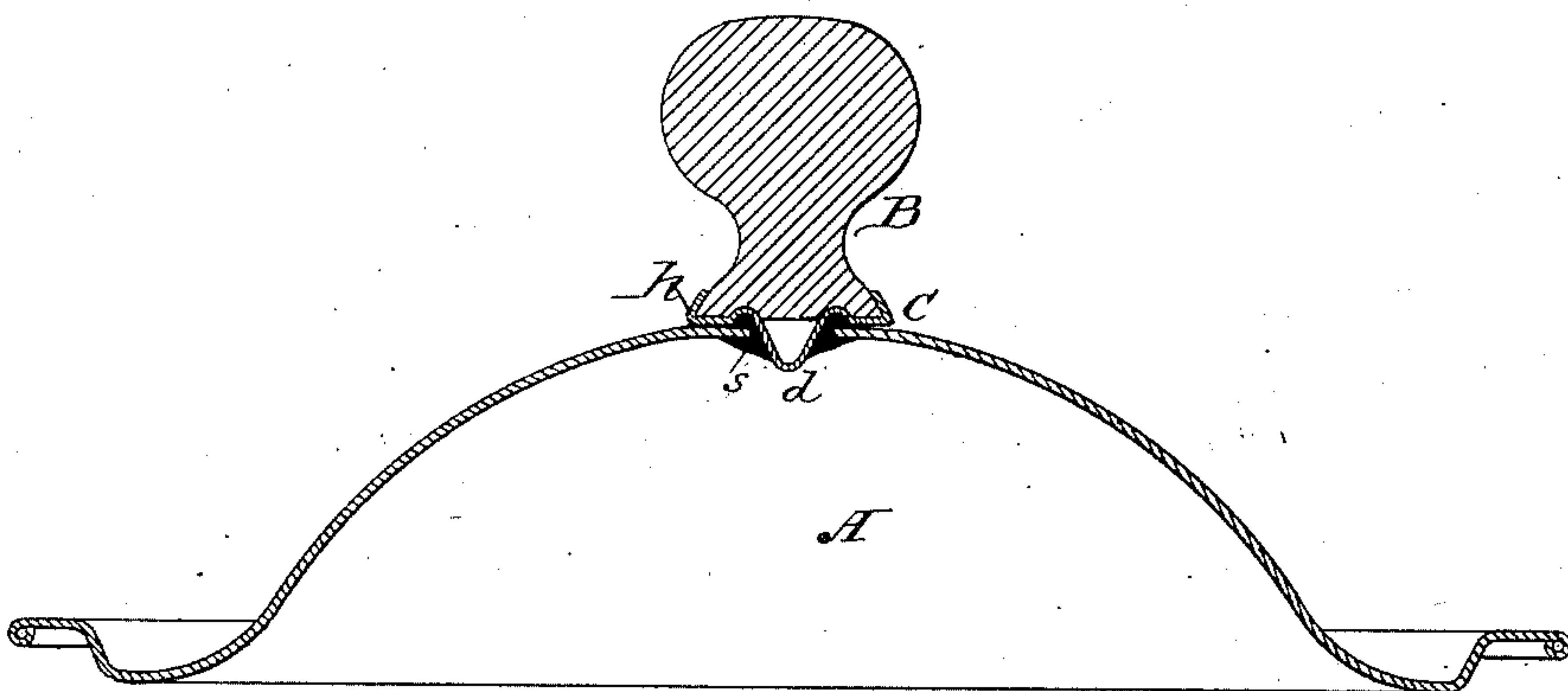


Fig. 2.



WITNESSES:

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HANDLE FOR COVERS OF VESSELS.

SPECIFICATION forming part of Letters Patent No. 302,929, dated August 5, 1884.

Application filed October 6, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH MUSGROVE, a citizen of the United States, residing at Norwich, in the county of New London and State of Connecticut, have invented a certain new and useful Improvement in Handle Attachments for Covers to Metal Vessels, of which the following is a specification.

My invention relates to the attachment of handles or knobs to the covers of culinary or other vessels.

Heretofore it has been customary to attach wooden handles or knobs to the metal covers of vessels by means of a rivet extending vertically through the knob, and provided with a lateral enlargement or head at its upper extremity. The lower part of the knob rests directly against the top of the cover, and the lower extremity of the rivet extends through an aperture formed in the same. The lower projecting end of the rivet has been either soldered to the lower surface of the cover or expanded by hammering, thus clamping or holding the knob to the cover between the head and the soldered or expanded extremity of the rivet. These methods have proved to be expensive, inefficient, and unreliable. Knobs of this description are first bored, so as to provide a hole for the ordinary iron rivet, after which they receive a coat of japan or enamel. In addition to the expense attached to the boring, a serious objection arises from the fact that it is impossible to prevent the japan or enamel from flowing into the hole, thus partially closing it up, so that in driving the rivet in position the pressure is such that the knob splits and is a source of great waste. It has also been found extremely difficult where rivets are used to prevent the knob or handle from splitting, owing to the changes in temperature to which the vessel is subjected, and the subsequent expansion and contraction of the metal with which the handle or knob is in contact. Moreover, it has been found impracticable to secure the extremity of the rivet to an enameled cover by expansion or solder, for in the first place the hammering would chip the enamel, and, in the second place solder will not adhere to the glazed

surface, and, as the solder has only the small surface of the end of the rivet to adhere to, it soon loosens by use and the handle comes off. By my invention I dispense with the hole in the knob, thus greatly strengthening it, besides doing away with the iron rivet, and in place use a solid knob or handle, and means whereby the same is securely attached to the covers of vessels of any description without fracturing or injuring the surface with which the cover may be coated, and attaching them in such a manner that it is impossible for them to split or become loose, as is the custom arising from the methods heretofore in use.

In the accompanying drawings, which illustrate my invention, Figure 1 is a transverse vertical section of my invention. Fig. 2 is a similar view showing the mode of attachment.

In said drawings, A is an ordinary metallic cover or lid for inclosing the mouth of the vessel.

B is a handle or knob, preferably of wood or other non-conductor of heat.

C is a metal cap, preferably secured to the base of the knob by the annular flange *h*.

In attaching knobs of this description to the metal covers of vessels various ways will suggest themselves. In practice, however, I have found it preferable to proceed as follows, to wit:

d is a projecting teat or point, formed on the cap, and extends through an aperture in the cover, as shown.

By means of the solder *s*, which is permitted to flow round the projecting teat or point, filling up the groove or recess *e*, considerable surface is obtained for the solder to adhere to, tightly securing the knob to the cover.

The metal caps used in the improved attachment above described are utilized from scraps and clippings too small to be of any commercial value, so that the cost is insignificant as compared with the best Norway-iron rivets now used for this purpose.

I claim as my invention—

1. The combination of the perforated cover, the knob, and the metal cap C, having the

projection passing through the perforation in the cover and secured by solder, substantially as described.

2. The wooden knob B, having a metal cap,
5 C, secured to its base by the annular flange *h*, said cap provided with the teat *d* and groove *e*, substantially as and for the purpose set forth.

In testimony whereof I have hereunto subscribed my name this 4th day of October, A. 10
D. 1883.

JOSEPH MUSGROVE.

Witnesses:

HENRY H. BURNHAM,
SILAS H. DEWEY.