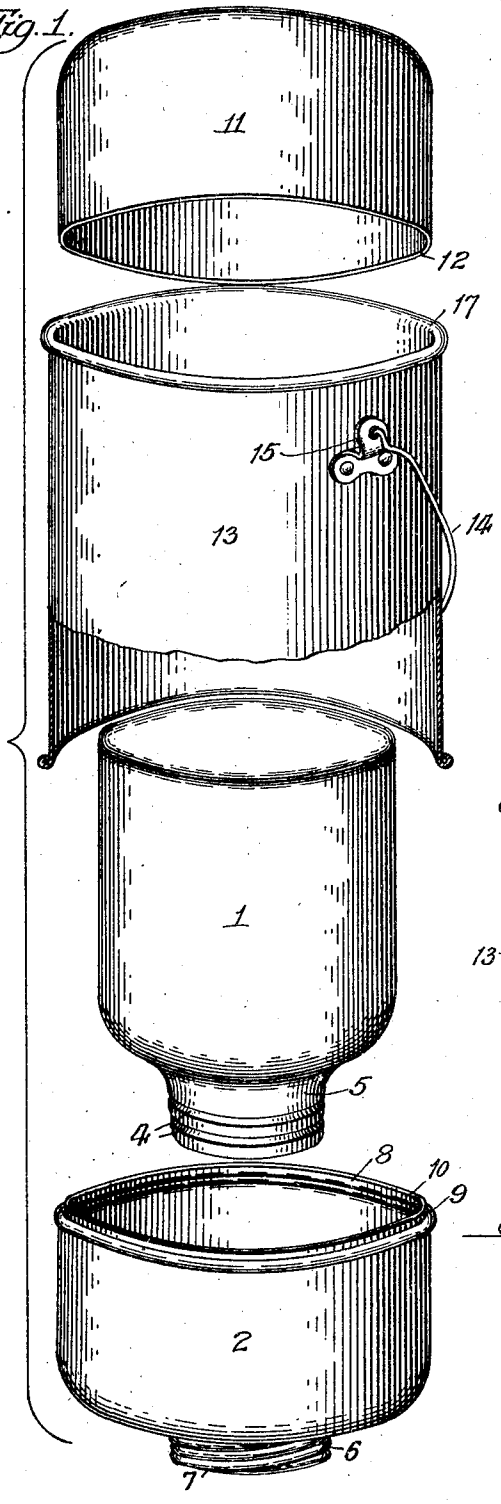
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E. S. JOHNSON

PROCESS OF INSULATING CONTAINERS AND MEANS THEREFOR

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Fig. 1.



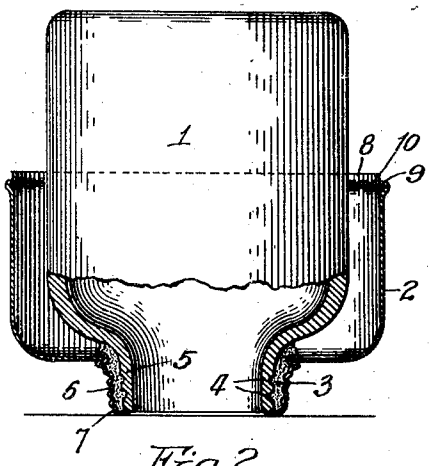
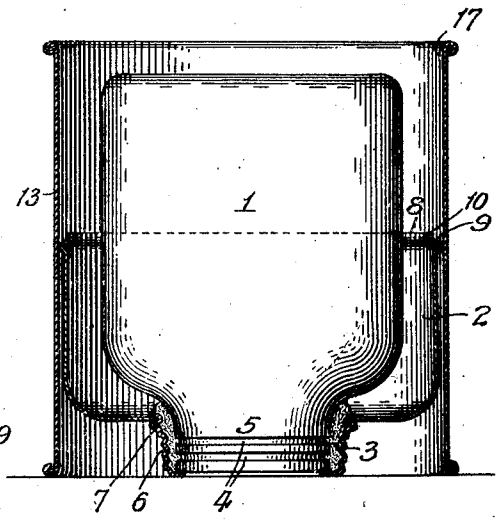


Fig. 2.

Fig. 3.



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Fig. 4.

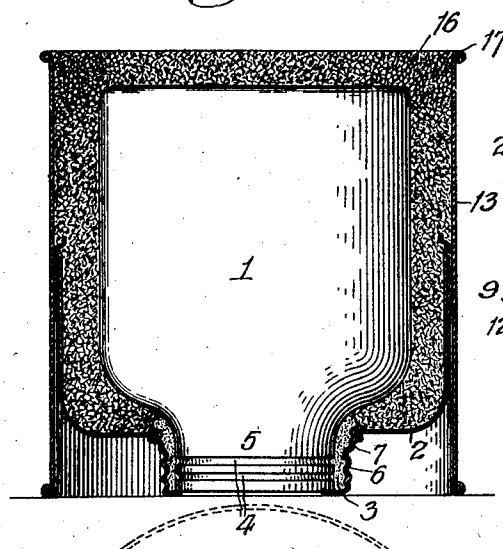


Fig. 6.

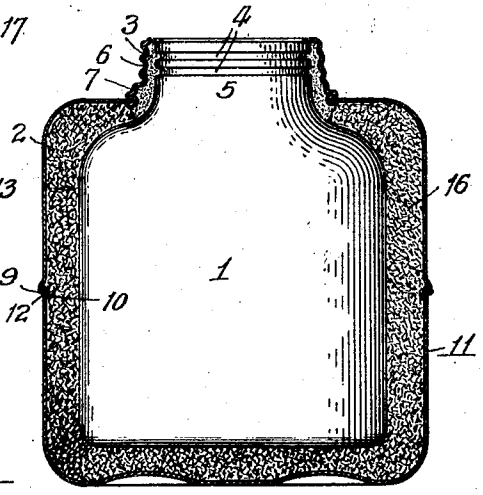


Fig. 5.

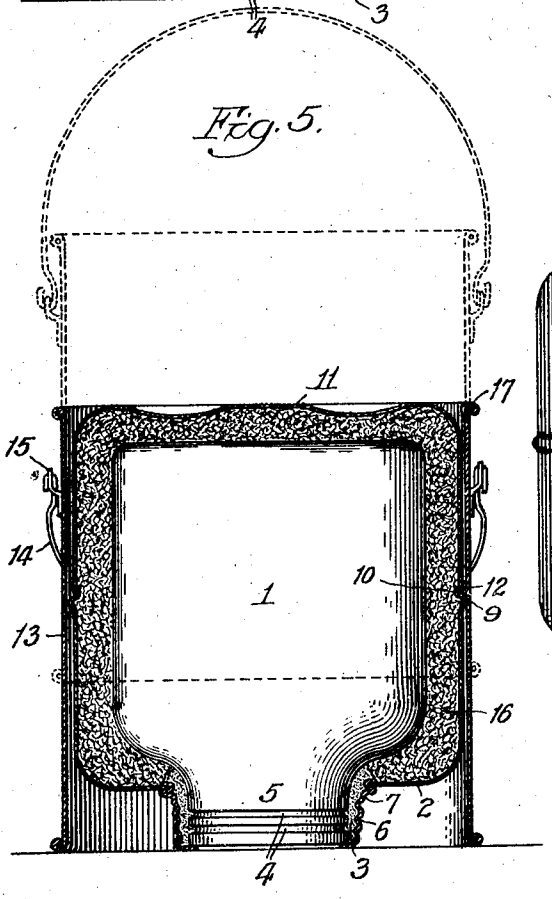
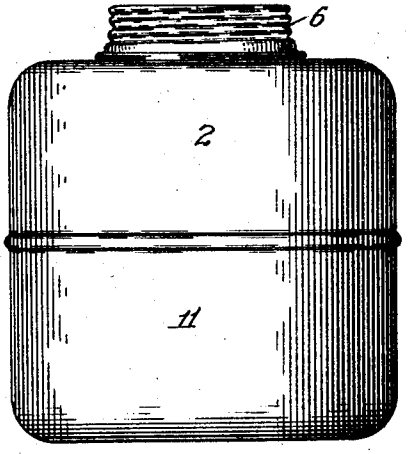


Fig. 7.



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UNITED STATES PATENT OFFICE.

ERNEST S. JOHNSON, OF WEBSTER CITY, IOWA.

PROCESS OF INSULATING CONTAINERS AND MEANS THEREFOR.

Application filed March 2, 1925. Serial No. 12,801.

The present invention relates to the insulating of containers, such as thermo-jugs and other similar devices.

In the filling of the space between a container, such as a jug, and the jacket sections of the same, with insulating material, it was difficult to completely fill the space with a uniform compactness of the material. The present invention comprehends the avoiding of such difficulty and disadvantage, and the effecting of the complete filling of the insulating space in a more rapid and efficient manner, and with less cost than heretofore. The specific manner of carrying out the invention is herein disclosed in illustration of one mode of carrying out the invention. The latter also comprehends the novel means, in the nature of a measuring or gauging device for carrying out the invention.

In the drawings illustrating one mode of practicing the invention, Figure 1 is a disassembled view of the parts used; Figure 2 is a side view with parts in section of a thermo-jug and a jacket section at one step of the process; Figure 3 is a similar view at another step of the process in which the gauging device is used; Figure 4 is a part sectional and part side view of the same at another step of the process wherein the insulating material is applied; Figure 5 is a similar view showing the application of the second jacket and the removal of the gauging device or shell; Figure 6 is a sectional view of the insulating jacket as completed; and, Figure 7 is a view in elevation of the completed insulated article.

Referring now more particularly to the drawings, in which a thermo-jug is illustrated for the purpose of showing the manner of carrying out the invention, the process is carried out by first connecting a jug 1 to a jacket section 2 by a suitable cementing material 3 or the like engaging into the grooves 4 of the neck 5 of the jug and the corrugations 6 of a neck portion 7 suitably connected to the jacket section 2, as clearly shown in Figure 2 of the drawings. The jacket section 2 has an open end 8 terminating about midway the length of the jug and, of course, it will be understood that the wall of the section 2 is suitably spaced from the exterior of the jug for forming the insulating space therebetween. The open end of the section 2 is preferably formed with a bead or shoulder 9 and a rim or lip 10 for the suitable engagement therewith of the open end of the other jacket section 11, the latter forming the lower or bottom section of the article. The rim portion 12 of the jacket section 11 is of a size to fit closely over the rim 10 and when the article is filled with insulating material, the open ends or rim portions 10 and 12 may then be soldered together in a suitable manner.

The gauging device, above mentioned, comprises preferably a tubular shell 13 open at both ends and having an interior cross-sectional area or contour to fit closely with the shoulder 9 of the jacket section 2, as clearly shown in Figure 3 of the drawings. This shell may have a suitable bail 14 pivotally connected to ears 15 fastened to opposite sides of the shell 13.

In carrying out the invention the section 2 is first connected at the neck portion 7 to the neck 5 of the jug by means of suitable cement 3. The jug and attached jacket portion 2 may then be placed upon a suitable support, neck down, as shown in Figure 2 of the drawings. The shell 13 may then be slipped or slid over the jacket section 2 and to rest upon the support, as clearly shown in Figure 3 of the drawings. The space between the jug and the shell as well as the lower section 2 may then be filled with insulating material 16 of any suitable character, such as granulated cork and other like and similar materials. This material is filled to the top end or rim 17 of the shell as clearly shown in Figure 4 of the drawings. The jacket section 11 is then taken with the open end thereof lowermost and slidably fitted into or slid in the upper portion of the shell 13 and forced downwardly to cause the upper portions of the insulating material to become compact into and fill the space of the jacket section 11, this continuing until the rim portion 12 of the jacket section 11 engages and fits with the upper open rim portion 10 of the jacket section 2, as clearly shown in Figure 5 of the drawings. The shell 13 may then be withdrawn upwardly as shown in dotted lines in Figure 5 of the drawings, and removed altogether. The rim portions 10 and 12 may then be soldered and the complete article will be of the appearance shown in Figures 6 and 7 of the drawings.

While I have herein disclosed one method of carrying out the invention and an illustrative embodiment of means for doing the same, it is understood that the invention

comprehends other methods and means without departing from the spirit thereof.

Having thus disclosed my invention, I claim:

1. A process of applying insulating material to a container having jacket sections, comprising connecting one of the jacket sections in place on the container whereby a space for insulating material is provided between said section and the container, applying a measuring shell to the open end of said jacket section, filling the space between said container and said shell and jacket section, inserting the other jacket section into said shell and with the open end thereof toward the open end of said first jacket section until the open ends of said jacket sections engage whereby the space between said container and said jacket sections is filled with the insulating material.

2. The process of insulating containers having jacket sections, comprising locating a container with a jacket section in a shell fitting closely to the exterior of the jacket section and with the open end of the jacket section within said shell, filling the space between the container and the jacket section and the shell with insulating material, then inserting the other jacket section in the said shell and about the insulating material therein until the open end of said second jacket section engages with the open end of said first jacket section whereby the space between the container and the jacket sections is filled, and removing said shell.

3. A device for applying insulating material to containers, comprising a hollow shell of a size at one end to enclose the open end of a jacket section of a container, and at the other to slidably receive the other jacket section, said shell serving as a measure for the amount of insulating material to substantially fill the space between the jackets and the container when the jacket sections are connected together.

4. A filling device for insulated jugs having jacket sections, comprising a hollow shell open at both ends and of a cross-sectional area approximately equal to the cross-sectional area of the open ends of said jacket section and for slidably receiving the said sections for the applying of insulating material in said section in the space between the same and the jug therein.

5. A filling device for insulated containers having jacket sections, comprising a hollow shell of a size to slidably receive the jacket sections during filling.

6. A filling device for insulated containers having jacket sections comprising a hollow shell into which may be slidably inserted the jacket sections, the shell serving as a measure for substantially the right amount of insulating material to substantially fill the insulating space when the sections are joined together.

7. The process of insulating a container comprising affixing to one end of the container a jacket section, placing the container with the aforesaid end in contact with a surface, enclosing said section and container with a measuring shell, filling with insulating material the space limited by said shell, section and container, inserting a second jacket section into said shell to bring the open end of said second section into contact with the open end of said first mentioned section, and thereafter securing the two said open ends together.

8. The process of insulating a container comprising affixing to one end of the container a jacket section, placing the container with the aforesaid end upon a surface, enclosing said section and container with a shell, one end of which shell rests upon said surface, filling with insulating material the space limited by said shell, section and container, inserting a second jacket section into said shell to bring the open end of said second jacket section into contact with the open end of said first mentioned section, and thereafter securing the two said open ends together.

9. The process of insulating a container comprising affixing to the container a jacket section having an open end opening upwardly and the container resting on a surface, sliding a measuring shell downwardly to rest upon said surface and snugly surrounding the open end of said section, filling the space limited by said shell, section and container with an insulating material, sliding a second jacket section into said shell until the open end of the second jacket section contacts with the open end of the section, and thereafter securing the two said open ends together.

In witness whereof, I hereunto subscribe my name to this specification.

ERNEST S. JOHNSON.