

O. KRÜGER.
BOTTLE COOLER.

APPLICATION FILED AUG. 2, 1907.

905,439.

Patented Dec. 1, 1908.

Fig. 1

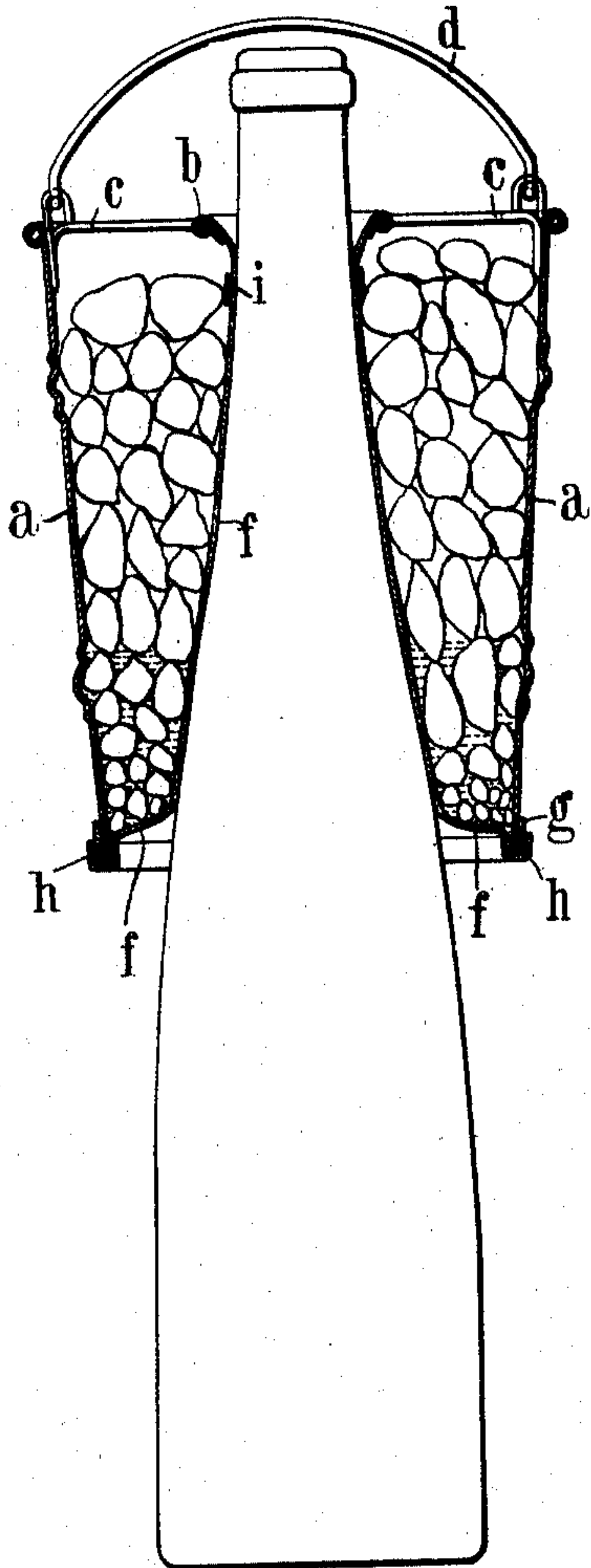


Fig. 2

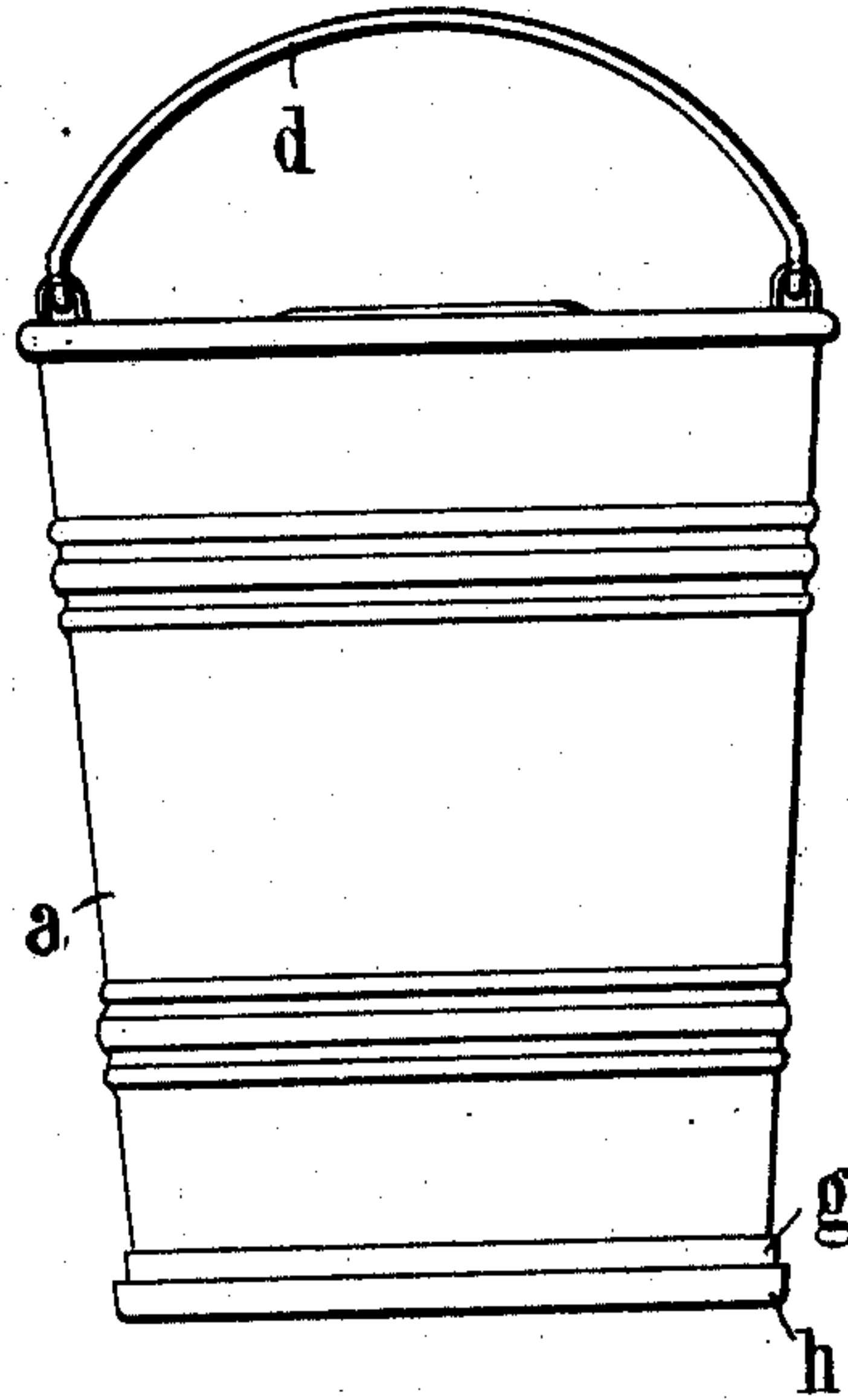


Fig. 3

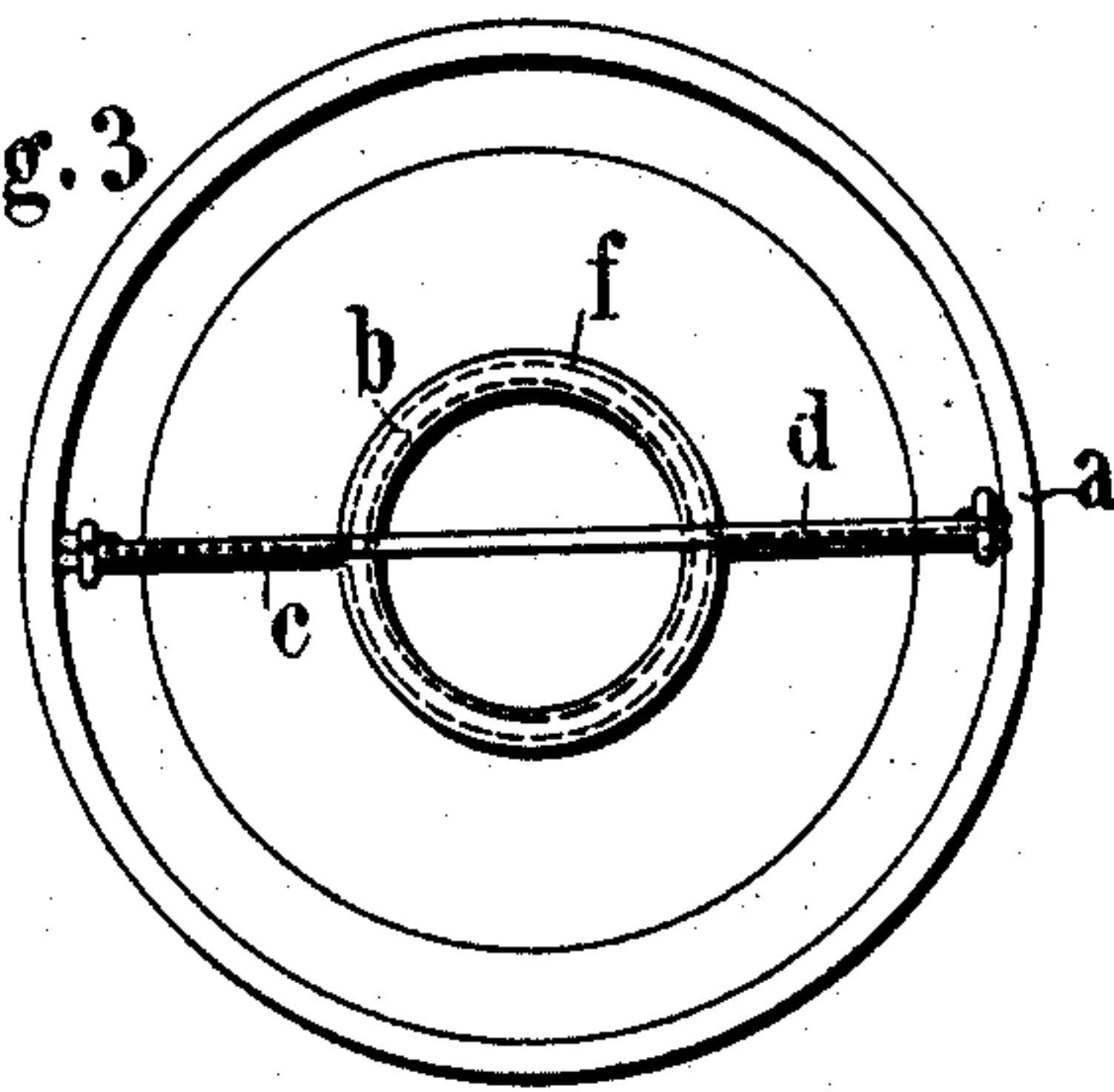
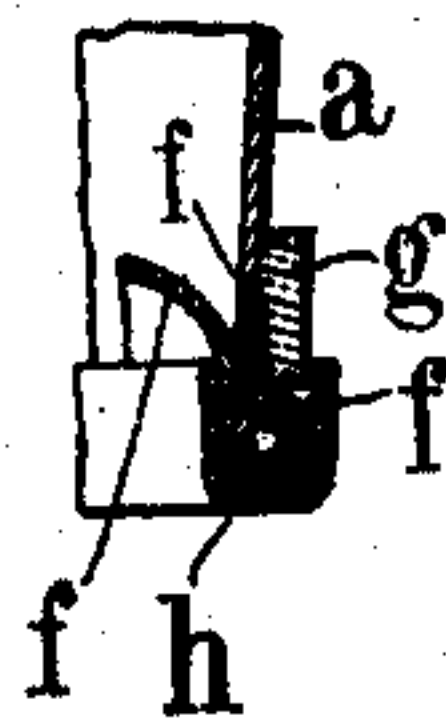


Fig. 4



Witnesses
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UNITED STATES PATENT OFFICE.

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BOTTLE-COOLER.

No. 905,439.

Specification of Letters Patent.

Patented Dec. 1, 1908.

Application filed August 2, 1907. Serial No. 386,784.

To all whom it may concern:

Be it known that I, OTTO KRÜGER, lawyer, citizen of the Empire of Germany, and resident of Allenstein, East Prussia, Germany, have made certain new and useful Improvements in Bottle-Coolers, of which the following is a specification.

The invention relates to a cooling device for bottles and consists of a receptacle with double walls which is pushed over the neck of the bottle, the intermediate space between the two walls being filled with a cooling agent and the inner wall, which consists of flexible material, being so shaped, that it clings to the neck and upper part of the bottle, while the rigid outer wall or casing can be made in cylindrical form of metal or the like. In this cylindrical casing is placed a conical wall or lining of waterproof, flexible material, the lower edge of which is connected to the bottom of the metal casing, while the smaller upper edge is fastened to a ring which serves to hold the lining on to the bottle neck and also to hold said lining concentric to the outer casing.

This cooling device has for its purpose to cool the contents of the upper part of the bottle and in particular wine bottles, the disadvantage of the usual wine coolers which only cool the lower part of the bottle and the liquid in the upper part of the bottle comparatively warm being done away with.

The cooling device is pushed from above over the bottle neck and can therefore also be used in combination with an ordinary bucket in which the bottle is placed.

The invention is illustrated in the accompanying drawings in which

Figure 1 is a vertical cross section of the cooling device placed on a wine bottle. Fig. 2 is a side elevation of the invention and Fig. 3 a plan view of same, while Fig. 4 shows the method of fastening the under edge of the outer rigid casing to the under edge of the flexible inner wall or lining.

The cooler consists of the outer rigid, approximately cylindrical casing *a* and the inner wall or lining *f* of flexible waterproof material, the under edge of the latter being tightly fastened to the under edge of the outer casing in any suitable way, as is shown for instance in Fig. 4 by rings *h* and *g*. The inner wall or lining *f* tapers towards the top

its upper edge being stiffened by a concentric ring *b* by means of which the device is placed on the bottle. The ring *b* is connected to the outer rigid casing *a* by means of cross-pieces *c* for the purpose of holding the lining *f* firmly in its concentric position to the outer casing and in order to relieve the strain on the flexible material in placing the device on a bottle. The cooling agent is filled in the space between the outer and inner walls. The device can also be used for warming claret, it being merely necessary to fill it with warm water instead of a cooling agent.

The device is provided with a handle *d* so that it can be conveniently placed on and taken off a bottle and at the same time the handle can act as support for the device when placed on the mouth of the bottle.

In order to make the lining *f* cling closely to the surface of the bottle, an india-rubber ring *i* can be placed near its top.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:

1. A bottle cooler comprising an inner tubular wall composed of flexible waterproof material contracted toward its upper end to conform to the taper of a bottle neck, an outer wall composed of rigid material surrounding and protecting the flexible inner wall, and means for supporting the flexible inner wall at the upper end in non-collapsed or tubular form and at a spaced distance from the outer rigid wall to form an annular receptacle for the refrigerating medium.

2. A bottle cooler comprising a receptacle embodying an upwardly-flaring rigid outer wall, an inner wall of flexible material contracting toward its upper end and adapted to fit a tapering bottle neck, and means for supporting said inner flexible wall in non-collapsed or tubular form, said means comprising a ring surrounding the upper end of the inner wall and attached to the rigid outer wall for centering the walls relatively to one another.

3. A bottle cooler comprising a receptacle embodying an outer wall of rigid material flared toward its upper end, an inner wall of flexible water-proof material contracted toward its upper end and adapted to fit a

tapering bottle neck, the lower edges of the two walls being fastened together, means for positioning the flexible inner wall at the upper end in non-collapsed or tubular form
5 within said outer wall, and an elastic band surrounding the inner wall for holding the latter in engagement with the bottle neck.

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

OTTO KRÜGER.

Witnesses:

WOLDERMAR HAUPT,
HENRY HASPER.