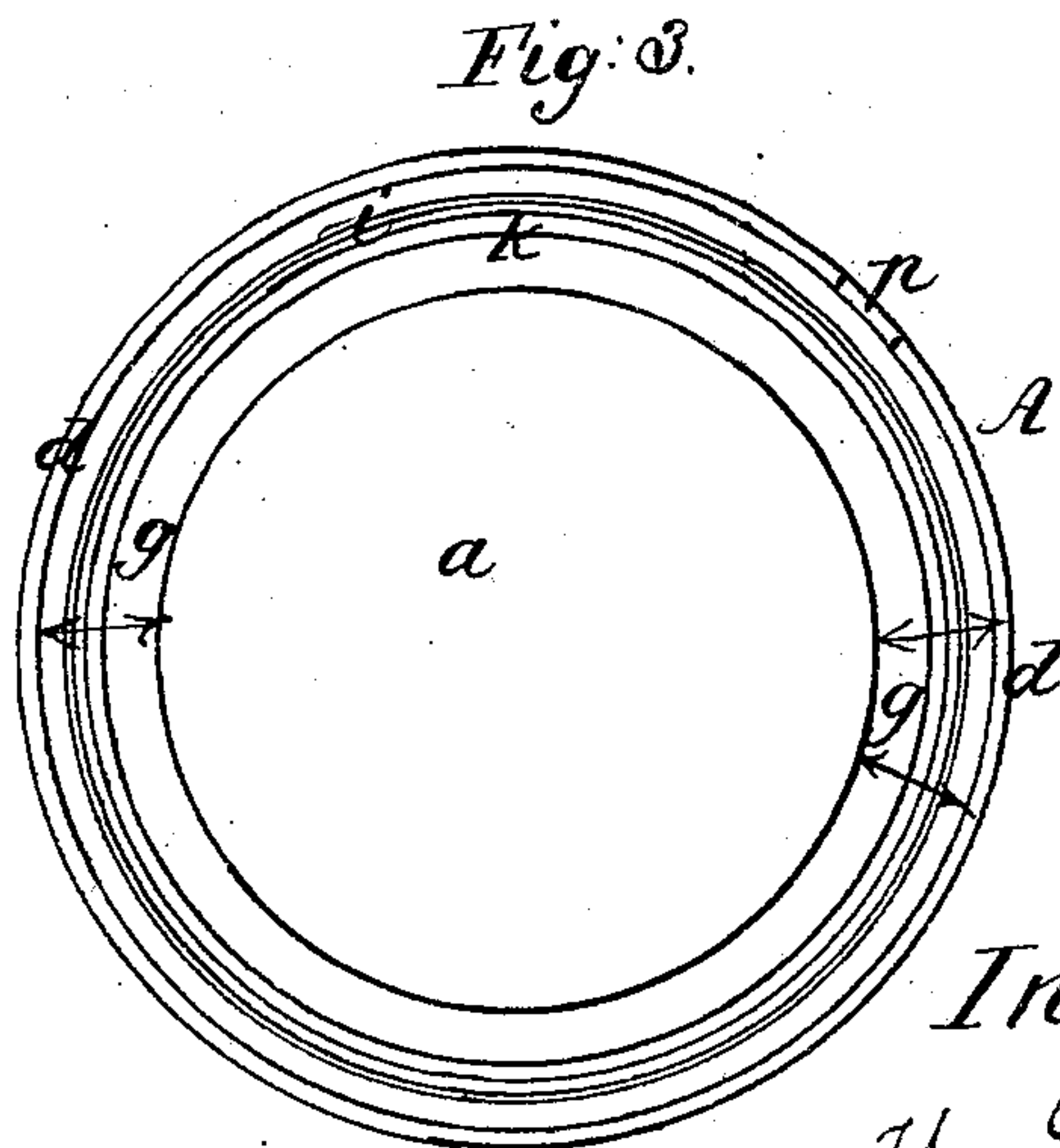
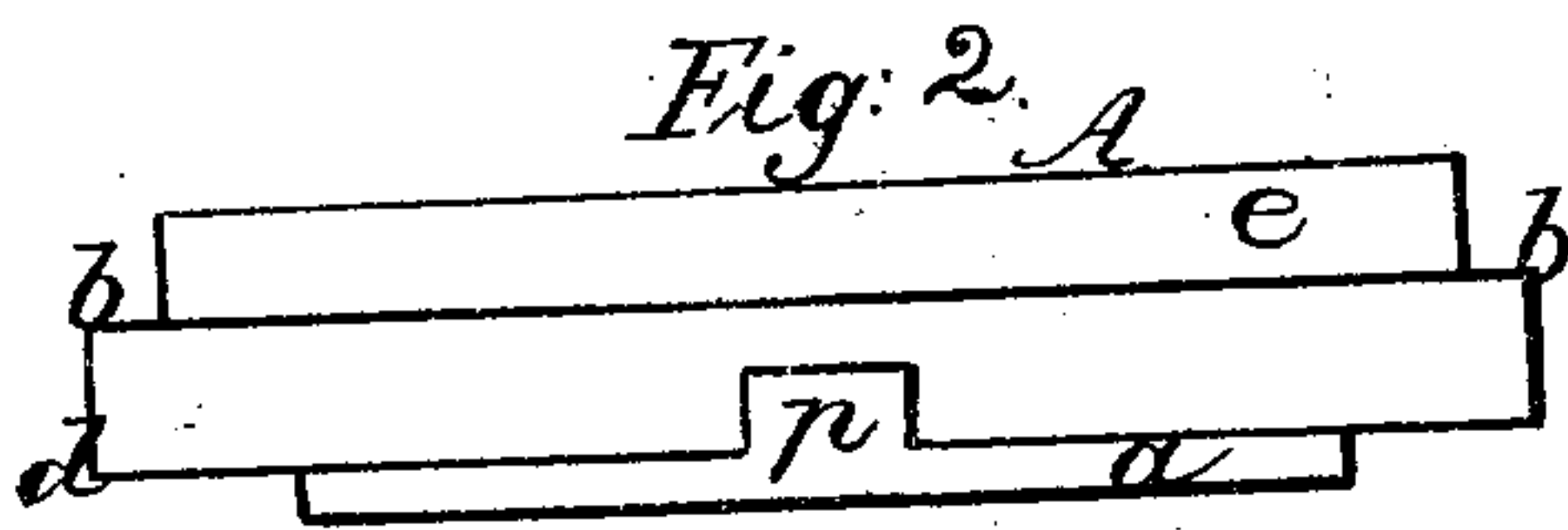
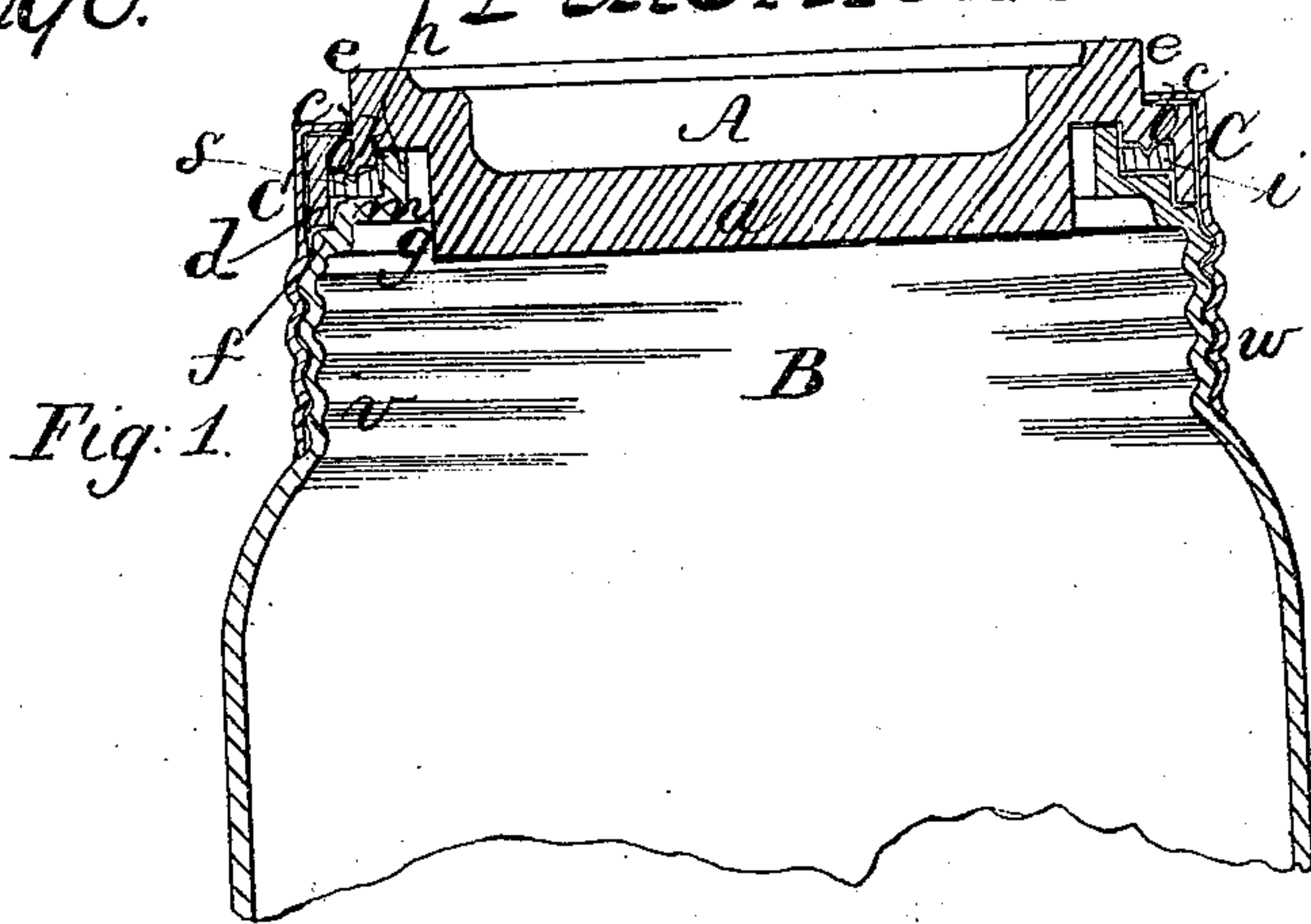


H. E. Shaffer

Fruit Jar

N<sup>o</sup> 96490.

Patented Nov. 2. 1869.



Witnesses;  
Chas P Sperry  
Geo W Meade

Inventor;  
H E Shaffer  
By J Farrow & Co  
attys

# United States Patent Office.

H. E. SHAFFER, OF ROCHESTER, NEW YORK.

Letters Patent No. 96,490, dated November 2, 1869.

## IMPROVEMENT IN FRUIT-JARS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, H. E. SHAFFER, of the city of Rochester, in the county of Monroe, and State of New York, have invented a certain new and useful Improvement in Fruit-Jars; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a section of the top of my improved jar;

Figure 2, a side view of the cover; and

Figure 3, a bottom view of the same.

Like letters of reference indicate corresponding parts in all the figures.

My invention consists in the special construction and arrangement of the top of the jar and the cover, whereby the packing-ring is perfectly enclosed in the glass itself, and thereby prevented from contact with the clamping-ring on the outside, and the contents of the jar on the inside.

In the drawings—

A represents the cover;

B, the jar; and

C, the clamping-ring.

The cover has a sunken centre, *a*, which rests down in the neck of the jar. It also has a raised rim, *c*, on top, with a depressed outer shoulder, *b*, that receives the flange *e* of the clamping-ring. It furthermore has a vertical flange, *d*, which, coming down closely over the outer shoulder *f* of the jar, makes a flush outer surface, to allow the vertical flange of the clamping-cap to extend down, and screw upon the neck of the jar beneath.

On the under side of the cover is formed a deep annular groove, *g*, fig. 3, one half of which, cut deeper, receives the upper rim *h* of the neck of the jar, while in the outer half is situated a projecting shoulder, *k*, with sharp-edged thread *i*, which bears upon the gasket *s*, resting on the upper shoulder *m* of the jar-neck. The gasket is thus perfectly insulated, both from the outside and inside of the jar, being thus removed from violence, and prevented from spreading by pressure, and removed from contact with the fruit.

In order to reach the gasket, to allow air to enter in opening, a notch, *p*, is formed in the outer flange *d*, through which a knife-blade or other instrument may be inserted, to press up the gasket.

The special novelty in this invention consists in the construction of the cover, in connection with the pe-

culiar form of the top of the jar, in such a manner as to insulate the packing, and, at the same time, allow it to be reached in opening the jar; also, in the method of centring the cover in place by a double bearing upon the inside and upon the outside of the same.

The insulation of the packing on the inside is produced by forming the deep groove *g*, and projecting the rim *k* of the jar therein nearly to the top. On the outside, it is produced by the flange *d* of the cover shutting closely down upon the shoulder *f* of the jar. In this manner, a perfect enclosure and protection of the packing are insured, and it is prevented from crushing out or becoming displaced by any pressure that may be brought upon it. At the same time, it can be reached, for opening the jar, by means of the notch *p*, as before described. This method of insulating the packing, I believe to be new.

To keep the cover in position to act upon the packing, it is desirable that it should be centred perfectly, and kept in such position at all times. To accomplish this, a double bearing is secured to the cover, first, inside, by the resting of the depressed centre *a* closely within the neck of the jar; and, second, outside, by the flange *d* of the cover striking closely down upon the lower shoulder *f* of the jar. By means of this double bearing, the cover is retained in a central position at all times, notwithstanding the turning of the clamping-ring, and the packing cannot get displaced.

I do not claim, simply and broadly, enclosing the packing-ring from inside and outside contact, as I am aware that such an effect is not new; but

What I claim as my invention, and desire to secure by Letters Patent, is—

The construction of the top of the jar with the two exterior shoulders *f m* and raised flange *h*, and of the cover with the vertical flange *d* and deep-stepped groove *g*, having the threaded shoulder *k*, the whole so arranged that the packing-ring is enclosed on the sides by the flanges *d h*, and at the top and bottom by the shoulders *k m*, being thereby perfectly embedded in the glass, and removed from outside friction with the clamping-ring, as well as inside contact with the contents of the jar, as herein set forth.

In witness whereof, I have hereunto signed my name, in the presence of two subscribing witnesses.

H. E. SHAFFER.

Witnesses:

R. F. OSGOOD,

GEO. W. MATT.