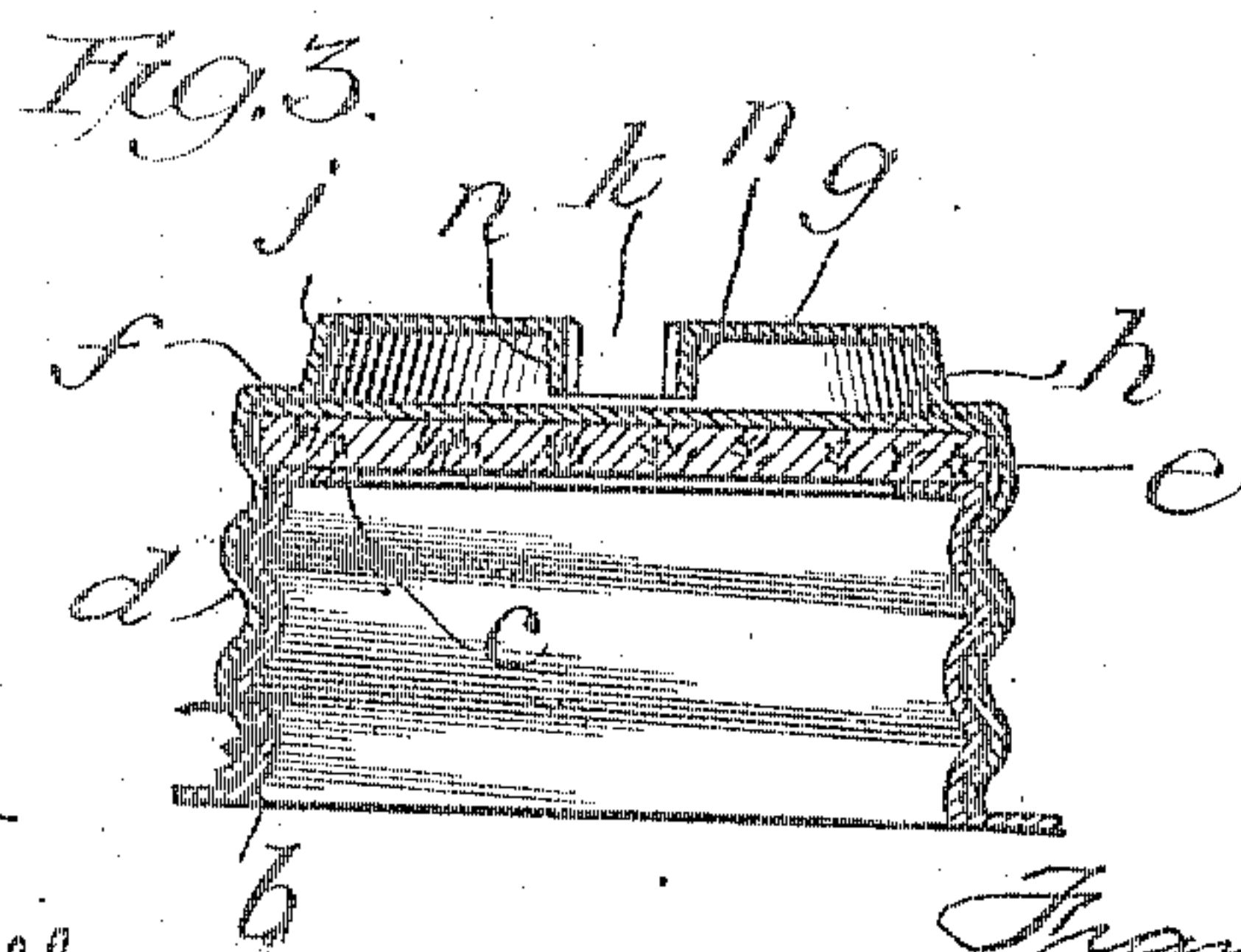
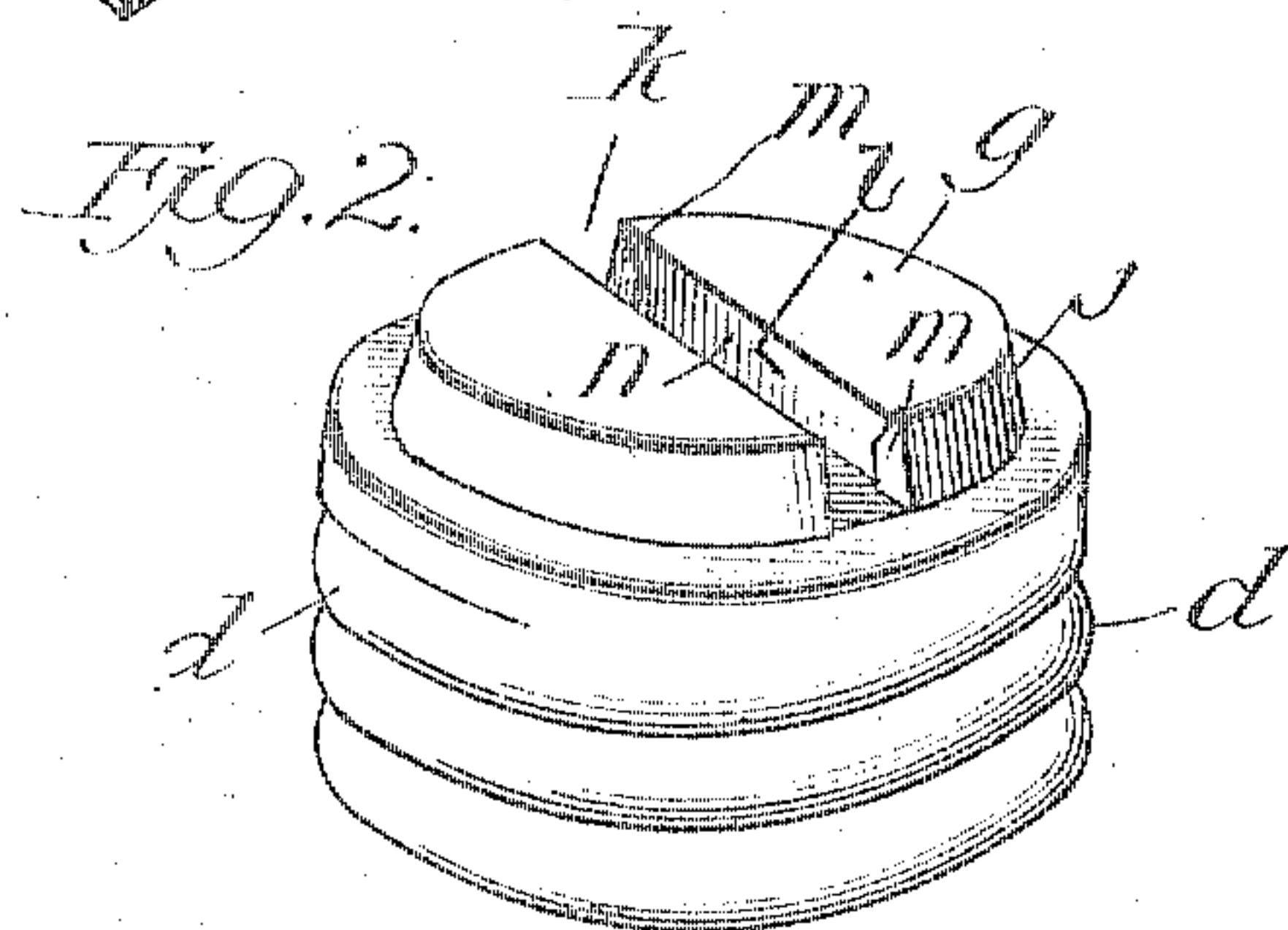
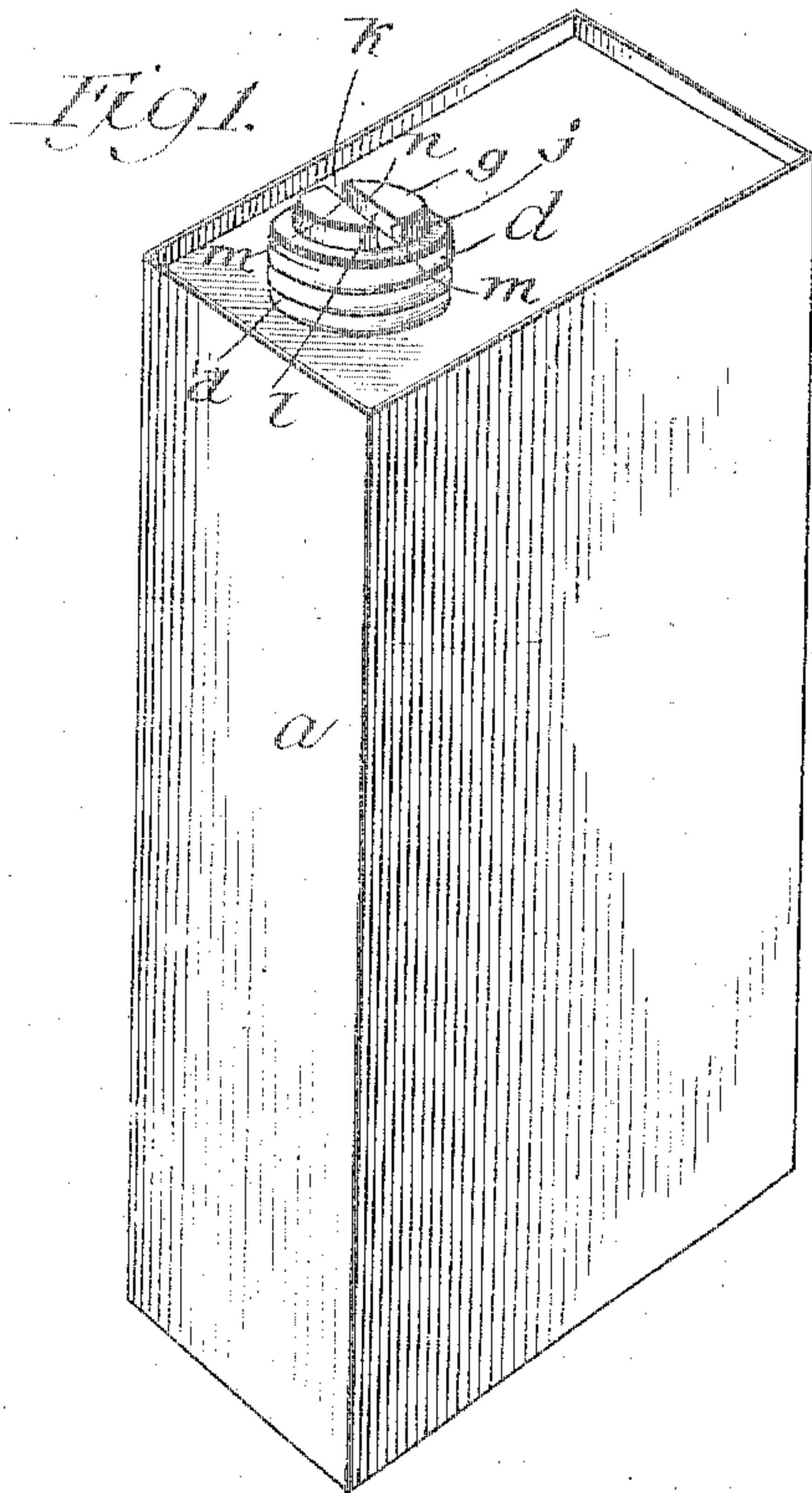


No. 817,100.

PATENTED APR. 3, 1906.

F. A. BERGMAN.
SCREW CAP FOR CANS.
APPLICATION FILED DEC. 27, 1904.



Witnesses:

Edw. P. Barrett
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Inventor

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UNITED STATES PATENT OFFICE.

FRANK A. BERGMAN, OF CHICAGO, ILLINOIS.

SCREW-CAP FOR CANS.

No. 817,100.

Specification of Letters Patent.

Patented April 3, 1906.

Application filed December 27, 1904. Serial No. 238,374.

To all whom it may concern:

Be it known that I, FRANK A. BERGMAN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Screw-Caps for Cans, of which the following is a specification.

My invention is concerned with a novel construction of a screw-cap for use in closing cans and similar receptacles for liquids, and is designed to produce a simple but strong cap that can be closed as tightly as may be necessary to securely seal the can and also readily opened if so sealed without the employment of any special tool for that purpose.

To illustrate my invention, I annex hereto a sheet of drawings, in which—

Figure 1 is a perspective view of a tin can having my cap in one form applied thereto. Fig. 2 is a perspective view of the cap on an enlarged scale, and Fig. 3 is a vertical central sectional view of the cap and the threaded neck of the can.

I have shown my invention as designed specifically for use with that style of a can *a*, which has a threaded neck *b*, which ordinarily terminates in the narrow inwardly-projecting flange *c*. With a can having this form of aperture the simple and strong cap will consist of a hollow threaded shell or body *d*, adapted to screw on the outside of the neck, and the top of the cap carries a disk or annulus *e*, of suitable packing material—such as cork, rubber, &c.—in suitable position, so that when the cap is screwed on the outer annular portion of the disk *e* is squeezed between the flange *c* and an annular abutment *f*, which projects inwardly and horizontally from near the top of the shell *d*, the top surface *g* being above and connected with the flange *f* by the annular portion *j*. The metallic disk *h* may be interposed between the abutment *f* and the disk *e*, if desired. The abutments for opening the can are formed by the edges of the recesses *k*, cut in the annular portion *j*, which recesses are also extended through the top surface *g*, forming the channel *l*, the walls of which are formed by the intumed portions *m*, formed in cutting the recesses *k* in the portion *j*, and the intumed portions *n*, formed in cutting and drawing the channel *l* in the top *g*. The formation of this channel across the top gives an additional advantage in that an implement, such as a coin, not reaching across to the abutments formed by the edges of the

recesses *k* may be employed by reason of its cooperating with the abutments formed by the edges of the channel *l*.

I am aware of the structure shown in the patent to Manierre, No. 689,896, dated December 31, 1901, and do not claim the same as my invention.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. As a new and useful article of manufacture, a screw-cap for receptacles consisting of the hollow metallic threaded body with the recesses formed in the top so as to produce abutments on the opposite sides thereof beneath the plane of the top, a flange located within the cylindrical surface of the threads and forming an annular abutment against which the packing-disk is adapted to be pressed by the top of the neck on the can, and the packing-disk in connection with the cap suitably located beneath the annular abutment, for the purpose described.

2. As a new and useful article of manufacture, a screw-cap for receptacles consisting of a hollow metallic threaded body with the recesses formed in the top so as to produce abutments on the opposite sides thereof beneath the plane of the top, a flange located within the cylindrical surface of the threads and forming an annular abutment against which the packing-disk is adapted to be pressed by the top of the neck on the can, the packing-disk located beneath the annular abutment, and the metallic disk between the packing-disk and the abutment.

3. As a new and useful article of manufacture, the screw-cap for receptacles consisting of a hollow metallic threaded body *d* with the flange *f* forming an abutment, and the top *g* having the channel *l* cut across the top thereof, and the packing-disk *e* beneath the flange *f*, for the purpose described.

4. As a new and useful article of manufacture, the screw-cap for receptacles consisting of a hollow metallic threaded body *d* with the inwardly-projecting horizontal flange *f* forming an abutment, the vertical flange *j*, and the top *g* having the channel *l* cut across the top thereof, and the packing-disk *e* beneath the flange *f* for the purpose described.

5. As a new and useful article of manufacture, the screw-cap for receptacles consisting of a hollow metallic threaded body *d* with the inwardly-projecting horizontal flange *f* forming an abutment, the vertical flange *j*, and

the top *g* having the channel *l* with the downturned sides *n* cut across the top thereof, and the packing-disk *e* beneath the flange *f*, for the purpose described.

5 6. As a new and useful article of manufacture, the screw-cap for receptacles consisting of a hollow metallic threaded body *d* with the inwardly-projecting horizontal flange *f* forming an abutment, the vertical flange *j*, and
10 the top *g* having the channel *l* cut across the top thereof, the packing-disk beneath the flange *f* and the metallic disk directly above the packing-disk, for the purpose described.

15 7. As a new and useful article of manufacture, the screw-cap for receptacles consisting of a hollow metallic threaded body *d*, with the inwardly-projecting horizontal flange *f* forming an abutment, the vertical flange *j*, and the top *g* having the channel *l* with the
20 downturned sides *n* cut across the top thereof, the packing-disk beneath the flange *f*, and

the metallic disk directly above the packing-disk, for the purpose described.

8. As a new and useful article of manufacture a closure for cans comprising the threaded neck *b*, with the cap cooperating therewith
25 and consisting of the threaded body portion, the packing abutment-flange within the circumference of the threads, the slitted top piece having the abutment edges *n*, said cap
30 being formed from a single piece of sheet metal, and the flat cylindrical packing-disk adapted to be clamped between the neck and packing abutment-flange when the cap is
screwed on.

35 In witness whereof I have hereunto set my hand this 22d day of December, 1904.

FRANK A. BERGMAN.

Witnesses:

JOHN H. McELROY,
JULIA M. BRISTOL.