

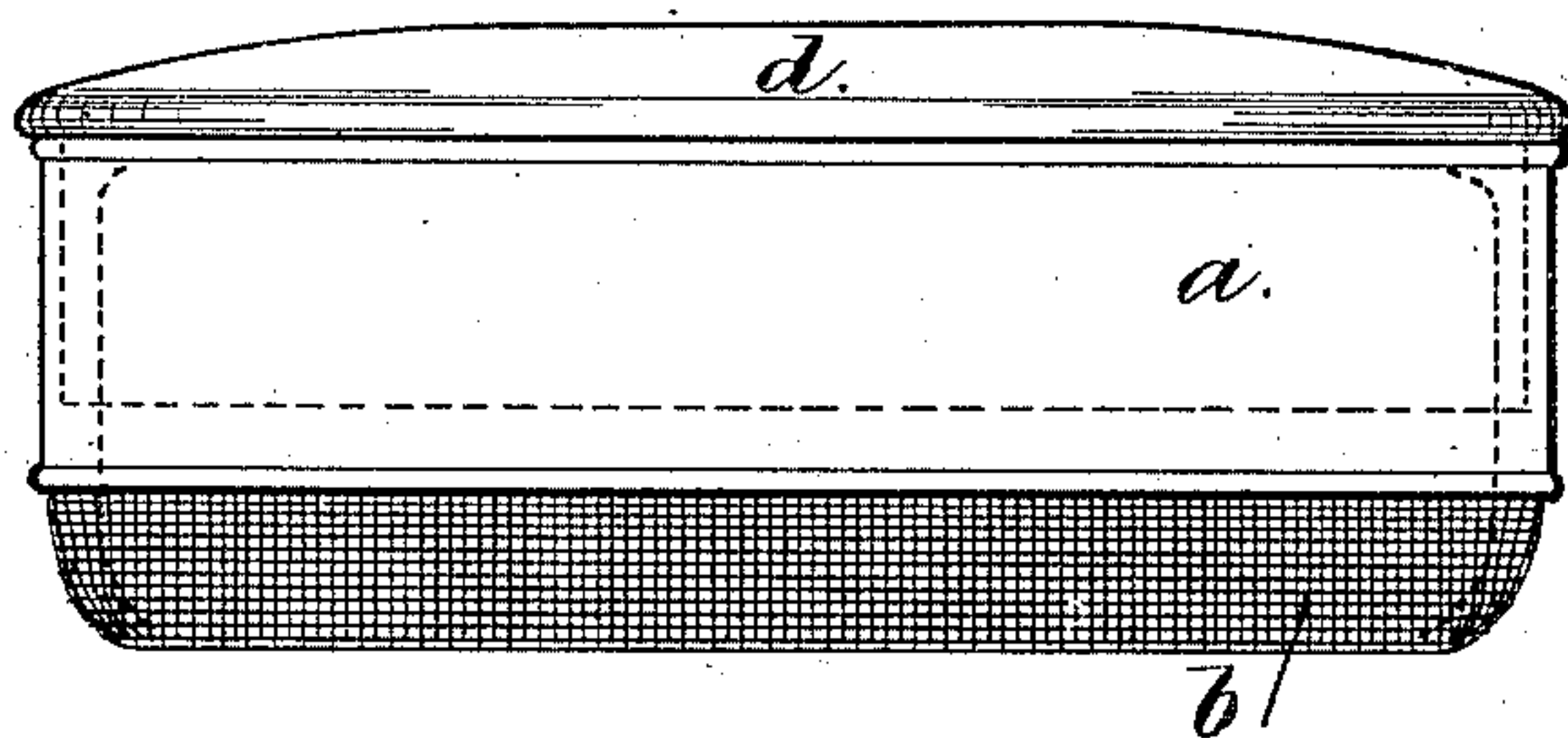
(No Model.)

J. H. LEE.  
SOAP HOLDER AND RUBBER.

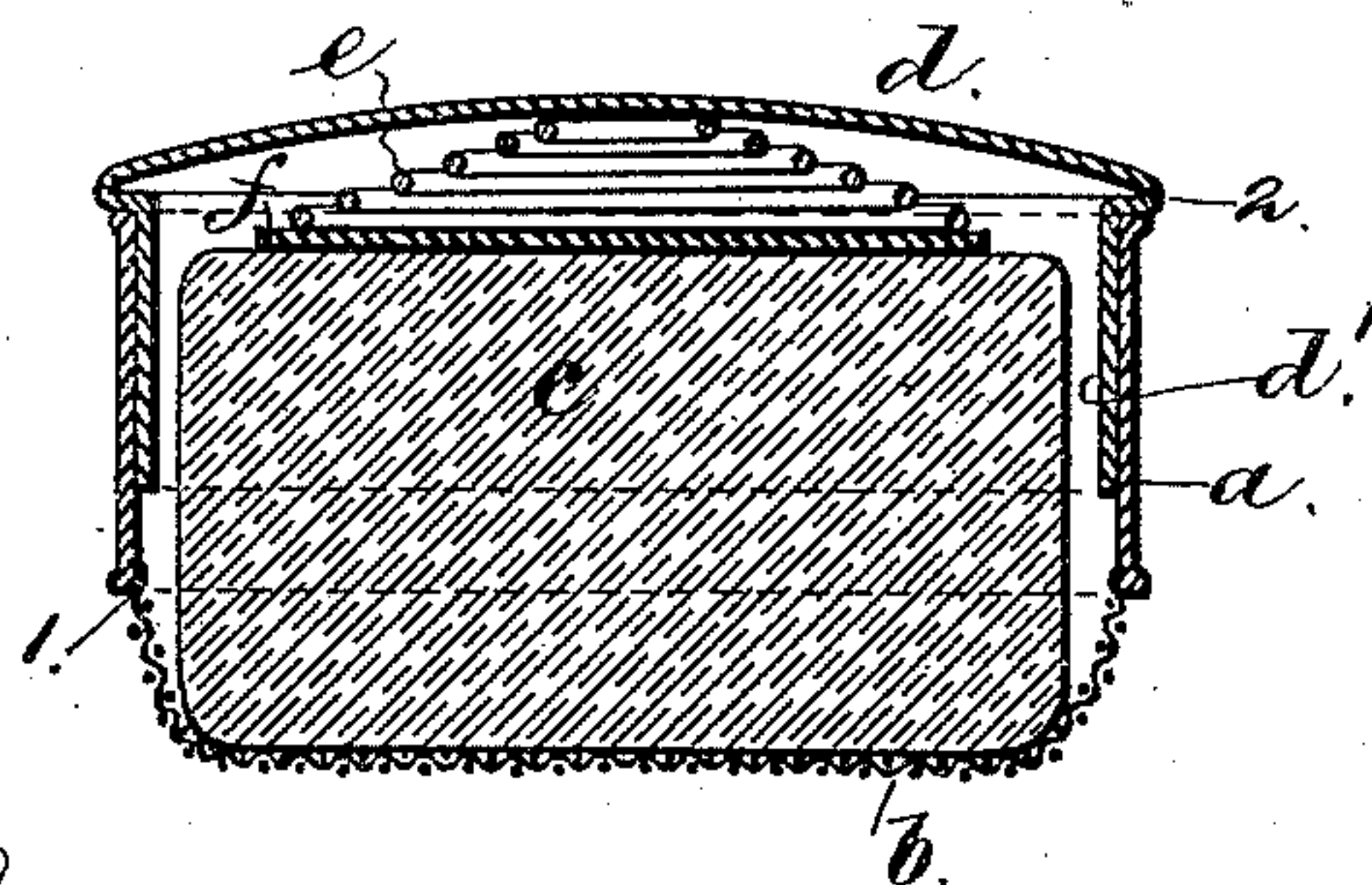
No. 445,701.

Patented Feb. 3, 1891.

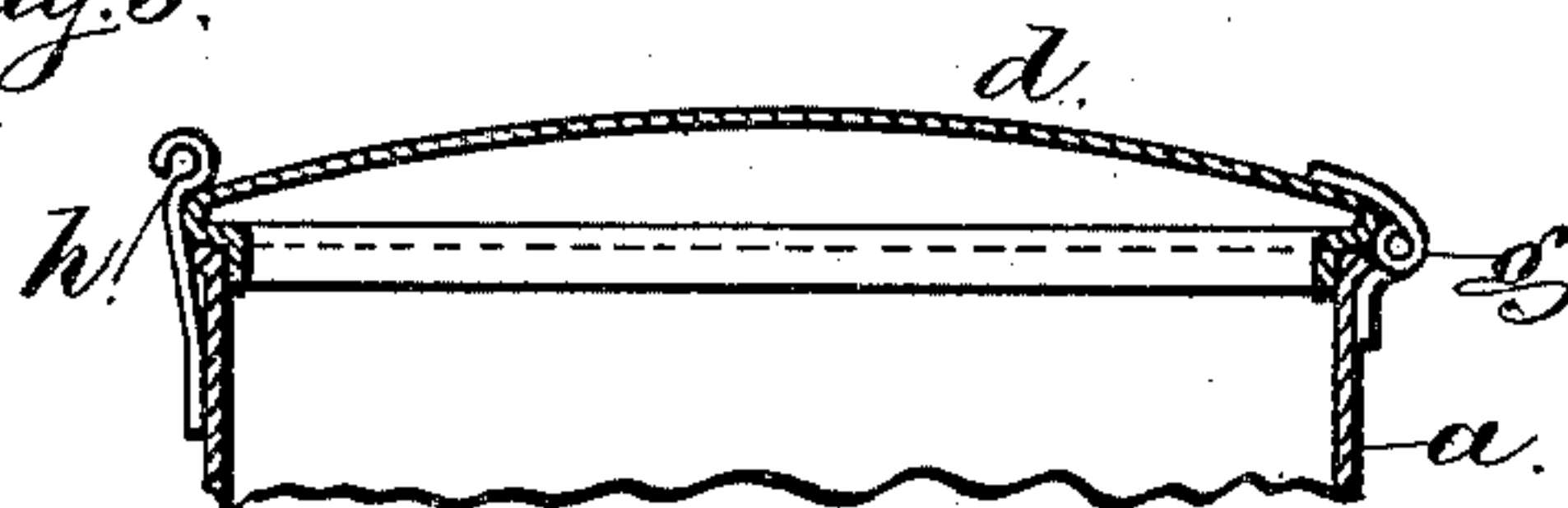
*Fig. 1.*



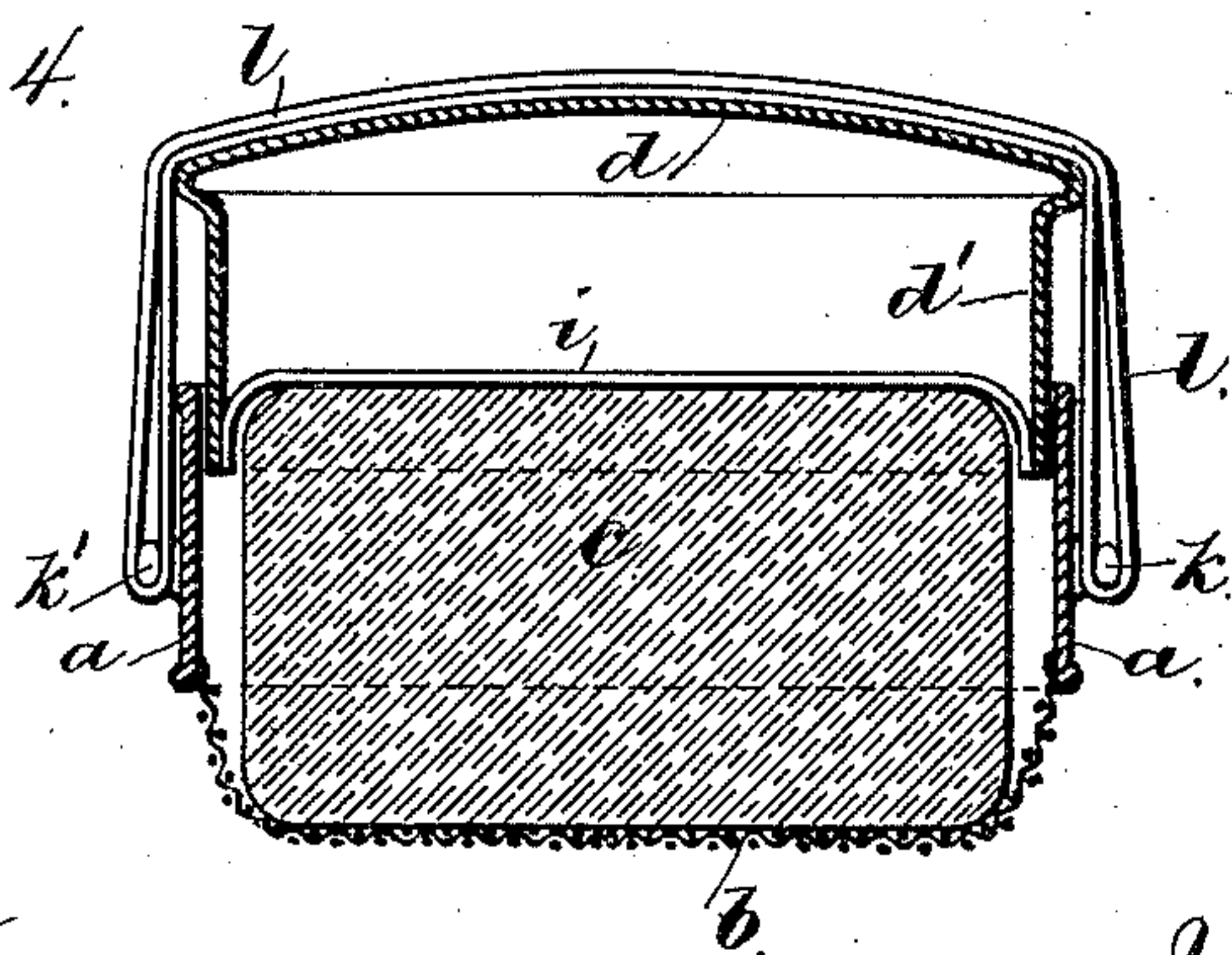
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses  
Harold Terrell  
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att'y



# UNITED STATES PATENT OFFICE.

JOHN H. LEE, OF NORWALK, CONNECTICUT, ASSIGNOR TO HIMSELF AND  
BRAINERD W. MAPES, OF SAME PLACE, AND CHARLES L. HEINS, OF NEW  
YORK, N. Y.

## SOAP HOLDER AND RUBBER.

SPECIFICATION forming part of Letters Patent No. 445,701, dated February 3, 1891.

Application filed April 29, 1889. Serial No. 309,049. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN H. LEE, of Norwalk, in the county of Fairfield and State of Connecticut, have invented a new and useful  
5 Improvement in Soap Holders and Rubbers; and the following is declared to be a full, clear, and exact description of the same.

My invention relates to certain novel and useful improvements in the construction of  
10 soap-holders and hand-rubbers; and the object of said invention is to produce a device adapted to hold a single cake of soap, and which device in use is held at one side in the hand, the soap being continuously pressed  
15 against the rubbing-surface of the other side as the same wears away.

My invention consists in a two-part case of sheet metal or analogous material adapted to hold a single cake of soap. The bottom of  
20 the case is oblong and made of a metallic band, to the lower part of which is secured the edges of a convex rubber of wire-cloth or similar material. The top or cover has a flanged edge or ring adapted to fit within the  
25 bottom, and I provide a spring acting against the cover portion to press the cake of soap against the rubbing-surface of wire-cloth. The cake of soap is entirely inclosed. In use the hand grasps the case and the surface of  
30 wire-cloth is pressed against the surface to be cleaned and rubbed thereon. The spring continues to act until the cake of soap is used up, when a new cake can be inserted in the holder with facility.

35 In the drawings, Figure 1 is a side elevation of my improved hand soap-rubber. Fig. 2 is a cross-section of the same, and Figs. 3 and 4 are modifications hereinafter more fully described.

40 The bottom or lower portion of the case is preferably made of a band *a* of metal of any desired outline or shape and slightly larger than a cake of soap, and *b* represents the rubber of wire-cloth made into an internal concave form and constituting the convex external rubbing-surface projecting below the  
45 band *a*, the edge of which is soldered to the inner surface of the lower edge of the band

*a*, and into this band *a* and wire-cloth *b* the cake of soap *c* is adapted to be placed. 50

*d* represents the sheet-metal top or cover having a turned-over edge or bead at 2 and a flange or rim *d'*, which rim is adapted to fit snugly within the metal body or band *a* and entirely inclose the cake of soap. The spiral spring *e* is secured at its apex to the under  
55 side of the metal top or cover *d*, and its base rests upon a plate or follower *f* upon the upper surface of the cake of soap *c*, and when the cover *d* is in place, as shown in Fig. 2, 60 the spiral spring *e* is compressed and its force acts against the plate *f* and cake of soap *c* to press the soap tightly against the inner surface of the rubber of wire-cloth *b*.

In use the hand is passed over the top cover  
65 *d* and grasps the same and the body or band *a*, and the surface of the wire-cloth *b* is pressed and rubbed against the article to be cleansed in the presence of water, and the surface of the wire-cloth *b* being smooth, but yet  
70 undulating, assists the action of the soap by producing a rubbing friction upon the surface of the article to be cleansed. This wire-cloth *b* being of fine open mesh permits the particles of soap and suds to pass through it  
75 and the wire-cloth becomes more or less embedded in the immediate surface of the soap, and there are no points or projections in this wire-cloth to tear or injure delicate fabrics.

Fig. 3 illustrates a modification of my improvement, wherein the top or cover *d* is hinged at *g* on one side to the body or band  
80 *a*, and is held in place upon the other side by a spring-catch *h*, and I may prefer to employ this means of holding the top or cover *d* to the  
85 band or body *a* instead of relying upon the tight fitting of the parts, as illustrated in Fig. 2.

The modification illustrated in Fig. 4 consists in providing the lower edge of the vertical rim *d'* of the cover with one or more  
90 metal bands *i*, forming followers, soldered to the lower edge of rim *d'* and adapted to pass across one side of the cake of soap and to bear upon the same, and in this case I provide  
95 lugs or projecting arms *k k'*, secured at

one of their ends to the exterior surface of the body or band *a*, and a rubber band *i* passes over the top of the cover *d* and its ends are passed around the lugs *k k'*, and the contractile action of the rubber band acts through the cover *d* and the metal band or bands *i* to press the cake of soap *c* against the surface of the rubber of wire-cloth *b*.

I claim as my invention—

- 10 1. The combination, in a soap-holder and hand-rubber, of a two-part case adapted to hold a single cake of soap, one part consisting of a band *a* and a projecting convex rubber of wire-cloth *b*, secured together at their  
15 edges, the other part consisting of a cover *d*, having an edge or rim *d'* and spring and follower acting to press the cake of soap against the surface of wire-cloth *b*, substantially as set forth.

2. A soap-holder and hand-rubber composed of a two-part case adapted to hold a single cake of soap, one part consisting of a band *a* and a projecting convex rubber of wire-cloth *b*, secured together at their edges, the other part consisting of a cover *d*, having a flanged edge or rim *d'*, in combination with a spiral spring *e*, secured at its apex to the under side of the cover, and a plate *f*, against which the base of the spring acts to press the cake of soap against the wire-cloth, substantially as and for the purposes set forth.

Signed by me this 22d day of April, A. D. 1889.

JOHN H. LEE.

Witnesses:

J. H. WADE,  
G. G. BRYANT.