

No. 648,036.

Patented Apr. 24, 1900.

N. LANSER.  
BOX.

(Application filed Sept. 13, 1899.)

(No Model.)

Fig. 1.

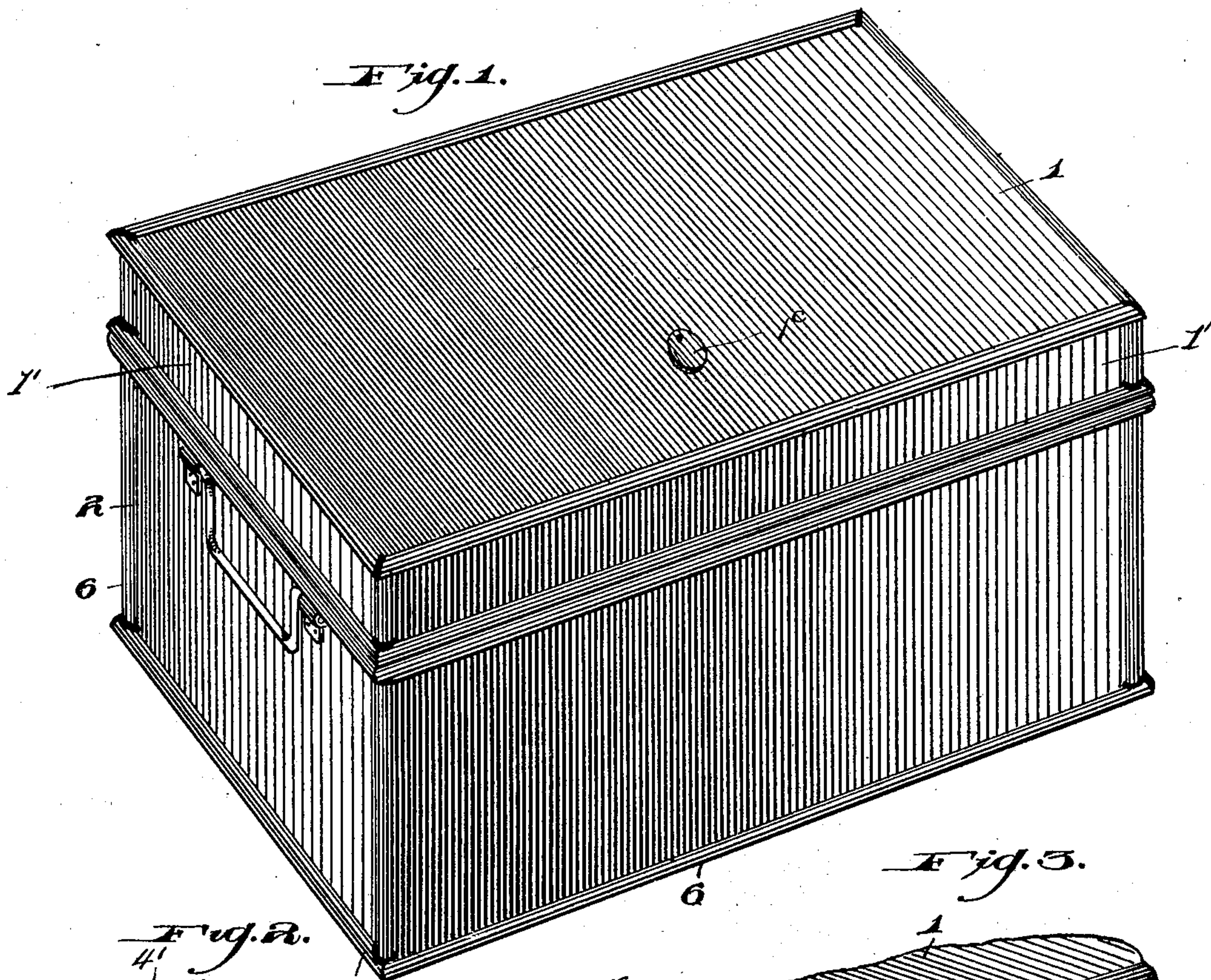


Fig. 3.

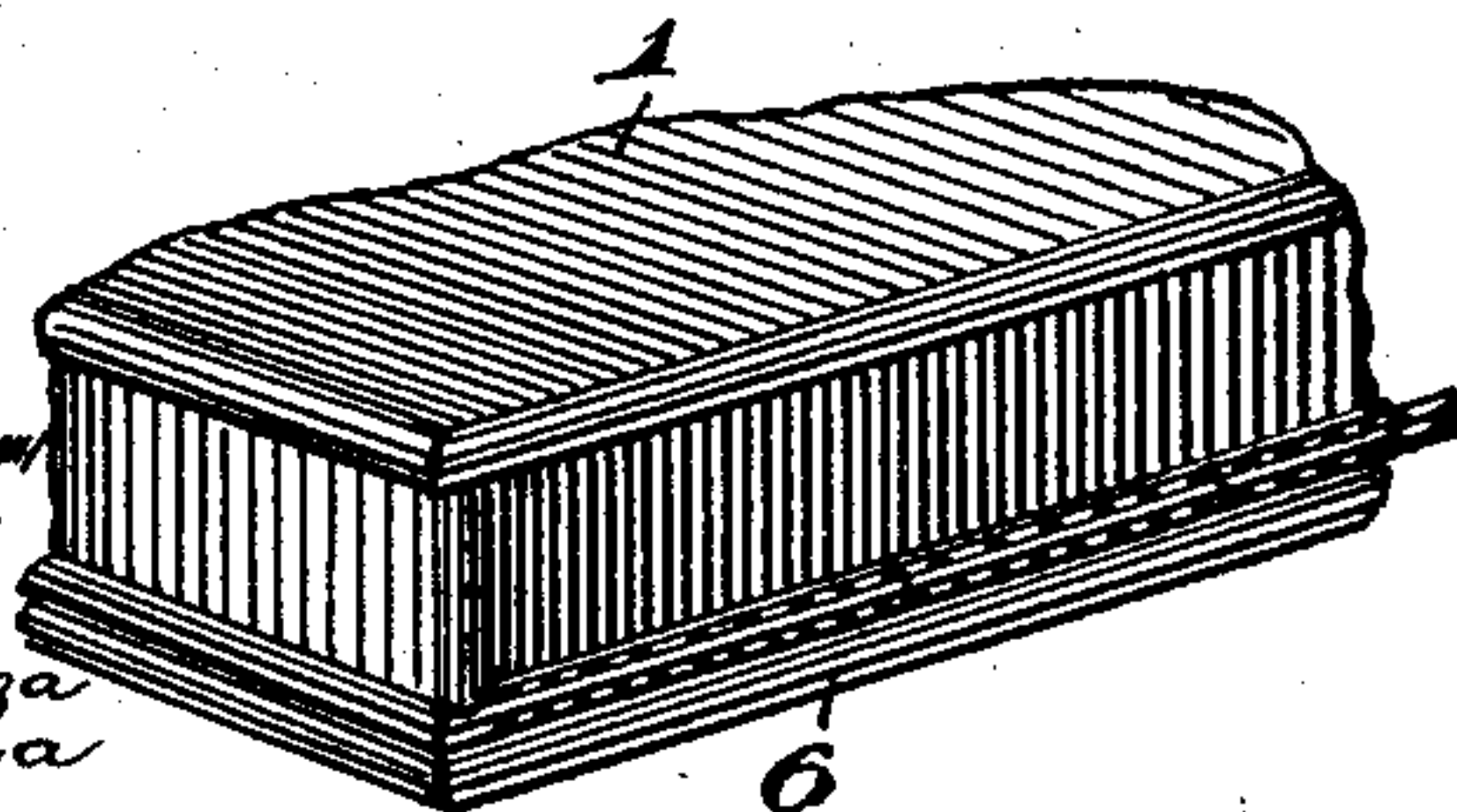
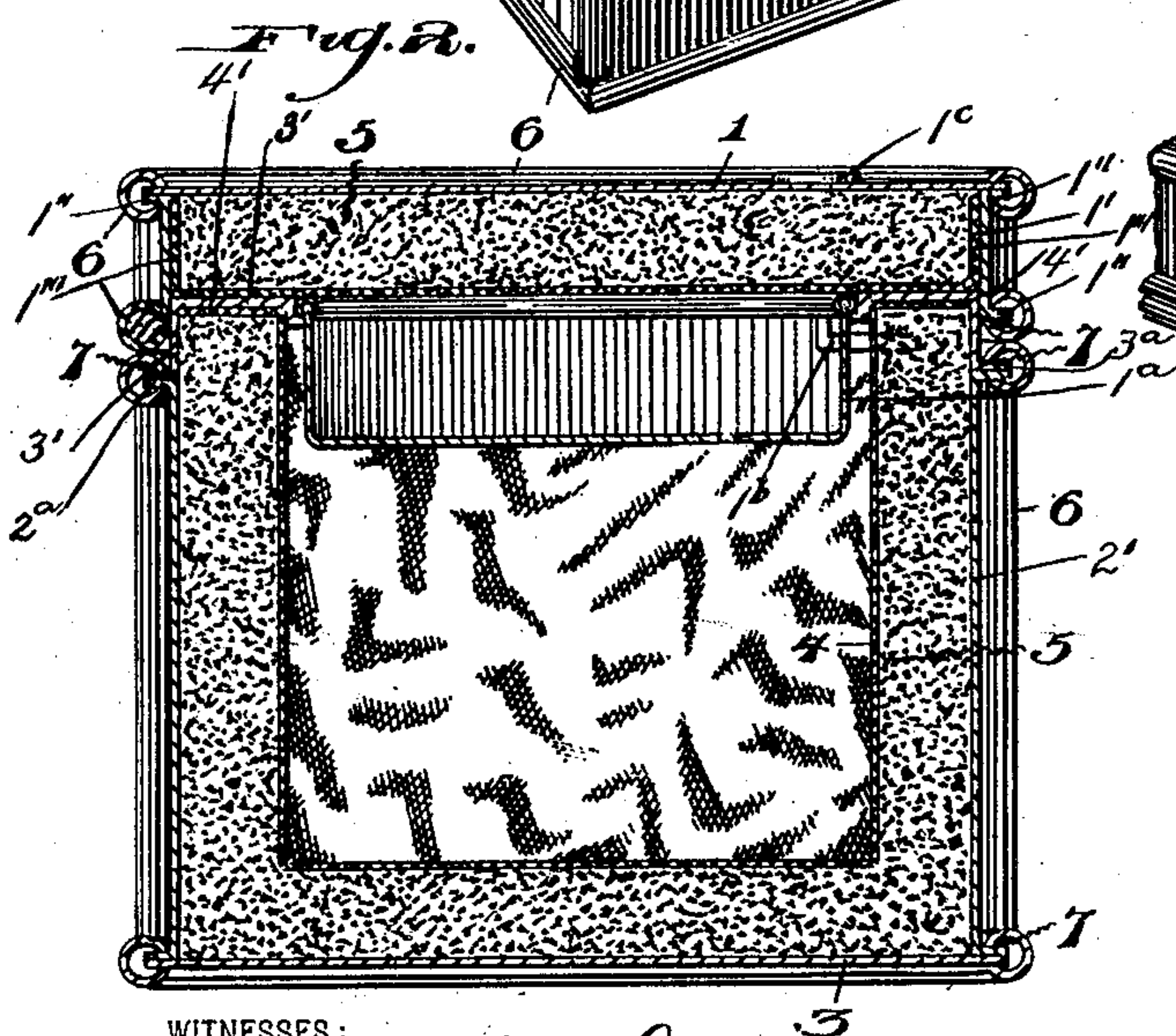
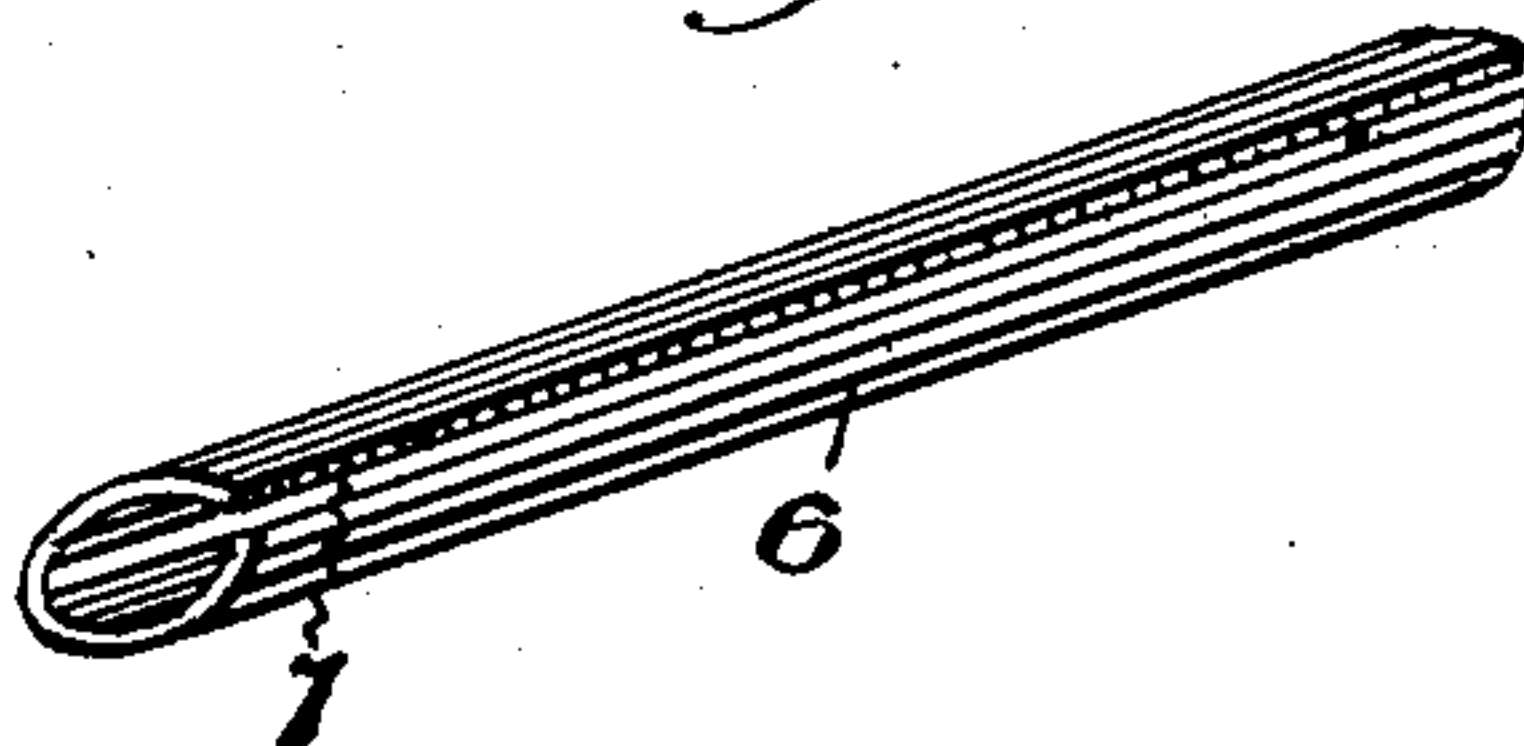


Fig. 4.



WITNESSES:

J. P. Appleman  
A. M. Haymaker

INVENTOR

Nicholas Lanser

BY

A. C. Enert & Co.  
ATTORNEYS.



# UNITED STATES PATENT OFFICE.

NICHOLAS LANSER, OF ALLEGHENY, PENNSYLVANIA.

## BOX.

SPECIFICATION forming part of Letters Patent No. 648,036, dated April 24, 1900.

Application filed September 13, 1899. Serial No. 730,311. (No model.)

*To all whom it may concern:*

Be it known that I, NICHOLAS LANSER, a citizen of the United States of America, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in the Manufacture of Boxes, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in the manufacture of fireproof boxes, and more particularly to the manufacture of metal fireproof boxes, cases, and the like.

15 The invention has for its object the provision of novel means whereby a box may be entirely built up without soldering the same at the sides and corners forming the connecting-walls.

20 The invention has for its further object to construct a box or case having double walls and a suitable fireproof material interposed between the inner and outer walls thereof; furthermore, to construct a box that can be  
25 easily made and one that will be strong and durable.

My invention, briefly described, consists of the sides and ends being turned up at right angles and adapted to receive a hollow  
30 strengthening-rib, the latter being cylindrical in form and slotted its entire length to receive the said ends and sides of the walls.

My invention finally consists in the novel construction, combination, and arrangement  
35 of parts to be hereinafter more fully described, and specifically pointed out in the claim.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, wherein  
40 like numerals of reference indicate corresponding parts throughout the several views, and in which—

Figure 1 is a perspective view of a box or case manufactured in accordance with the  
45 herein-described invention. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a detail view of one of the corners, showing in dotted lines the strengthening-rib in position. Fig. 4 is a detail view in perspective of the  
50 strengthening-rib.

Referring to the drawings by reference-numerals, 1 indicates the upper wall of the

top, and 1' the downwardly-extending sides thereof, which are crimped outwardly or bent at right angles at the upper and lower edge  
55 thereof, as at 1'', the upper crimp of the sides 1' being such that the outer edge thereof will register with the outer edge of the upper wall 1 of the top. The top is further provided with an inner casing 1''', open at the top thereof and  
60 which fits neatly within the side walls of the top. This casing is adapted to receive a suitable fireproof material 5.

Secured to the lower face of the casing 1''' is a downwardly-extending closed lock-case  
65 1<sup>a</sup>, in which is arranged the latch 1<sup>b</sup>, which operates through the side of the casing, as shown, for securing the same to the body portion of the box or case. If desired, a series of latches 1<sup>b</sup> may be provided, operated by a  
70 single key through the keyhole-guard 1<sup>c</sup>, extending through the top and registering with the latch-case 1<sup>a</sup>.

For securing the top 1 and side walls 1' together I provide a hollow strengthening or  
75 bending rib 6, which is cylindrical in shape and slotted its entire length upon one side thereof, as at 7. This rib is secured to the crimped ends of the top and side walls by the mounting thereon through the slot, as shown  
80 in Fig. 2.

The body portion of the box or casing consists of the end 2, and side walls 2', bottom or lower wall 3, and the side auxiliary wall 3'.  
85 An auxiliary end wall of the same construction as the construction of the auxiliary side wall is also provided. This is not shown.

The end 2 and side walls 2' are crimped outwardly or bent at right angles at the upper  
90 and lower edge thereof, as at 2<sup>a</sup>, and the auxiliary side wall 3', as at 3<sup>a</sup>. The auxiliary end wall (not shown) is also crimped in the same manner as the wall 3'. The upper crimp of the side and end walls is adapted to register with the crimp of the auxiliary side and  
95 end walls, as shown in Fig. 2, the lower crimp of the side and end walls being such that the outer edge thereof will register with the outer edge of the bottom or lower wall 3 of the body portion of the box or casing. (See Fig. 2 of  
100 the drawings.)

I secure together the auxiliary end, side, and lower wall or bottom of the body portion of the box or casing by means of the strength-



ening or binding ribs 6, which are of the same construction as the ribs 6 for the top and are used in the same manner.

4 indicates a hollow receptacle, which is mounted within the box or casing in such a manner as to form a chamber, within which is arranged a fireproofing material 5. The receptacle 4 has its upper end bent at right angles, as at 4'. This right-angled end is adapted to engage the inner face of the side and end walls, or it may be secured thereto.

The sides, bottom, and top being cut to the requisite dimensions are placed together by crimping the edges or turning them at right angles to the body portion. The strengthening or binding rib is then slipped over these portions and connected together by solder, cement, or other fastening means at the corners or junctions, as the case may be. By this means the box is easily constructed, additional strength is obtained, and the body portion of the box provided with a guard that will prevent the same being injured.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a fireproof box, the combination of a body portion, consisting of a flat metallic bottom, a pair of side and end walls each having their upper and lower ends bent outwardly at an angle, a series of slotted side and end tubes adapted to engage and secure the sides, ends

and bottom together and having the meeting ends thereof mitered to form a close connection with each other, said side and end walls having their sides flanged outwardly, a series of slotted corner-tubes adapted to engage said flanged ends and secure the side and end walls together, said slotted corner-tubes resting at the lower ends upon the meeting ends of the said side and end tubes, a hollow receptacle mounted within said side and end walls and having a portion of the top thereof bent outwardly at an angle and the end of this angle portion crimped and resting upon said bent portion of the upper end of said side and end walls, a series of upper slotted side and end tubes adapted to engage and secure the sides, end and hollow receptacle together, and rest upon the upper end of said corner-tubes, a cover adapted to rest upon said upper series of slotted tubes and be suitably secured thereto, said cover consisting of a top and side wall secured together by an upper and lower series of slotted side, end and corner tubes, an inner casing arranged in said cover, a lock-case secured to said casing, a fireproofing material arranged in said casing, and a fireproof material arranged in said body portion and surrounding said casing, substantially as described.

In testimony whereof I affix my signature in the presence of two witnesses.

NICHOLAS LANSER.

Witnesses:

JOHN NOLAND,  
WILLIAM E. MINOR.