

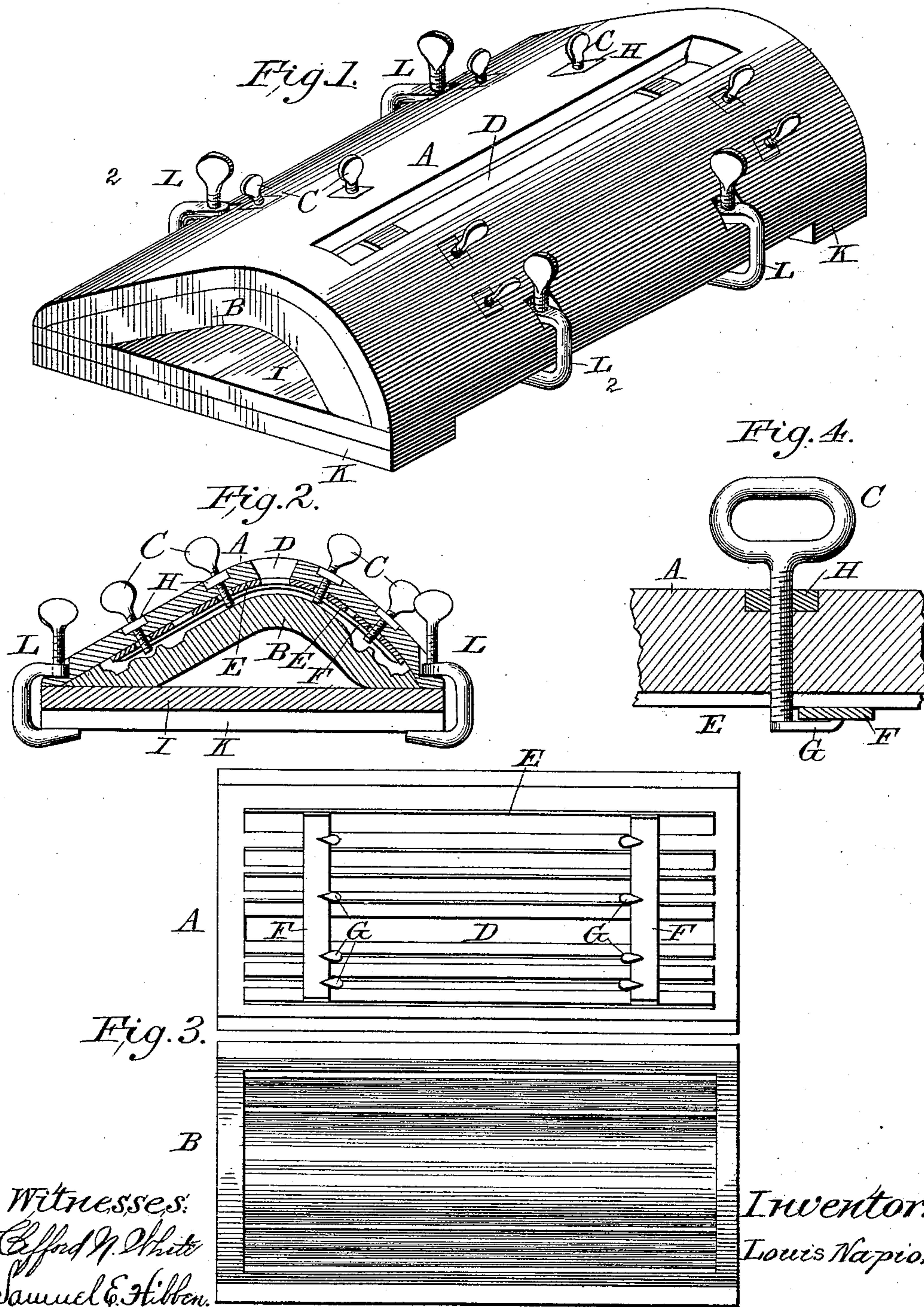
(Model.)

L. NAPION.

MOLD FOR MAKING PLASTER OR COMPOSITION CASTS.

No. 449,945.

Patented Apr. 7, 1891.



Witnesses:  
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ATTY'S



# UNITED STATES PATENT OFFICE.

LOUIS NAPION, OF CHICAGO, ILLINOIS.

## MOLD FOR MAKING PLASTER OR COMPOSITION CASTS.

SPECIFICATION forming part of Letters Patent No. 449,945, dated April 7, 1891.

Application filed May 7, 1890. Serial No. 350,956. (No model.)

*To all whom it may concern:*

Be it known that I, LOUIS NAPION, a citizen of the United States, residing at Chicago, in the county Cook, State of Illinois, have  
5 invented a new and useful Improvement in Molds for Making Plaster or Composition Casts, of which the following is a specification.

The object of my invention is to provide  
10 for economically and solidly casting plaster or composition ornaments of considerable size, such as center-pieces, cornices, &c.; and the invention consists in the features hereinafter described and claimed.

15 In the accompanying drawings, Figure 1 is a perspective view of the mold; Fig. 2, a vertical section taken in line 2 2 of Fig. 1; Fig. 3, an inside view of the shell and mold, and Fig. 4 a side elevation of the screw or bolt  
20 and other parts.

A is the shell; B, the mold; C, the screws or bolts; D, an opening in the shell; E, longitudinal strengthening-strips, and F transverse strengthening-strips, of wood or other  
25 material; G, an extended horizontal portion at the lower end of the screw or bolt; H, a nut on the screw or bolt; I, a board on which the mold rests; K, a cross-piece under the board to steady same, and L screw-presses to  
30 keep the mold and shell together.

Heretofore strips of wood, wire-cloth, &c., have been put in casts after the liquid material was poured into the mold, which strips were afterward allowed to remain in the cast  
35 to strengthen it. This way of putting in the strengthening-strips requires much labor, and generally is very inconvenient and unsatisfactory, this being especially so on concave or convex molds. By my invention the strengthening-strips, of wood, wire-cloth, or other material, are detachably fastened on the inner surface of the shell of the mold before the liquid material is poured in and afterward detached from the shell and allowed to remain embedded in the cast. The strengthening-strips are secured to the inner surface  
45 of the shell by screws or in any other suitable manner, so that when the shell is put on the mold the strips do not come in contact with the latter, but are partially or wholly in the body of or surrounded by the liquid material when the same is poured in. Generally the strips are surrounded by the liquid

material except as to their upper surface, and in some cases even the upper surface is entirely covered. I prefer to secure the strips  
55 to the inner surface of the shell by screws or bolts of the form shown, so that the horizontal projection at the lower end may by a partial turn of the screw be passed under and  
60 in contact with the strengthening-strips. In this way the horizontal portion of the screws serves to hold the strips in place, the strips being either horizontal or transverse, or both. After the liquid has been poured in and becomes sufficiently hardened to hold the strips  
65 in place without the aid of the screws the latter are turned sufficiently to remove the horizontal projecting portion out from under the strips and then pulled up close to the inner  
70 surface of the shell. This leaves the strips in such position that they become solidly embedded in the cast whenever the same is hardened. After the cast is fully hardened the mold is opened and the cast, with its embedded strips, taken out in the usual way.

The advantages of my invention are that it enables the strengthening-strips to be put into position before the liquid is poured in, that it enables much larger casts to be formed  
80 than heretofore, and that it saves much time and trouble in putting in the strips.

It will of course be understood that I do not intend to limit myself to the particular form of mold, shell, strips, or means for fastening the strips above described; but that I  
85 intend to vary the construction or to use other forms or equivalents, as circumstances may require.

I claim—

1. In combination with the outer shell or mold for making plaster or composition casts, strengthening-strips, and means for detachably fastening the same to the under side of the shell, substantially as described.  
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2. In combination with the outer shell and mold for making plaster or composition casts, strengthening-strips, and screws for detachably fastening the same to the under side of the shell, each screw being provided with a horizontal projecting portion at its lower end, substantially as described.  
100

LOUIS NAPION.

Witnesses:

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