

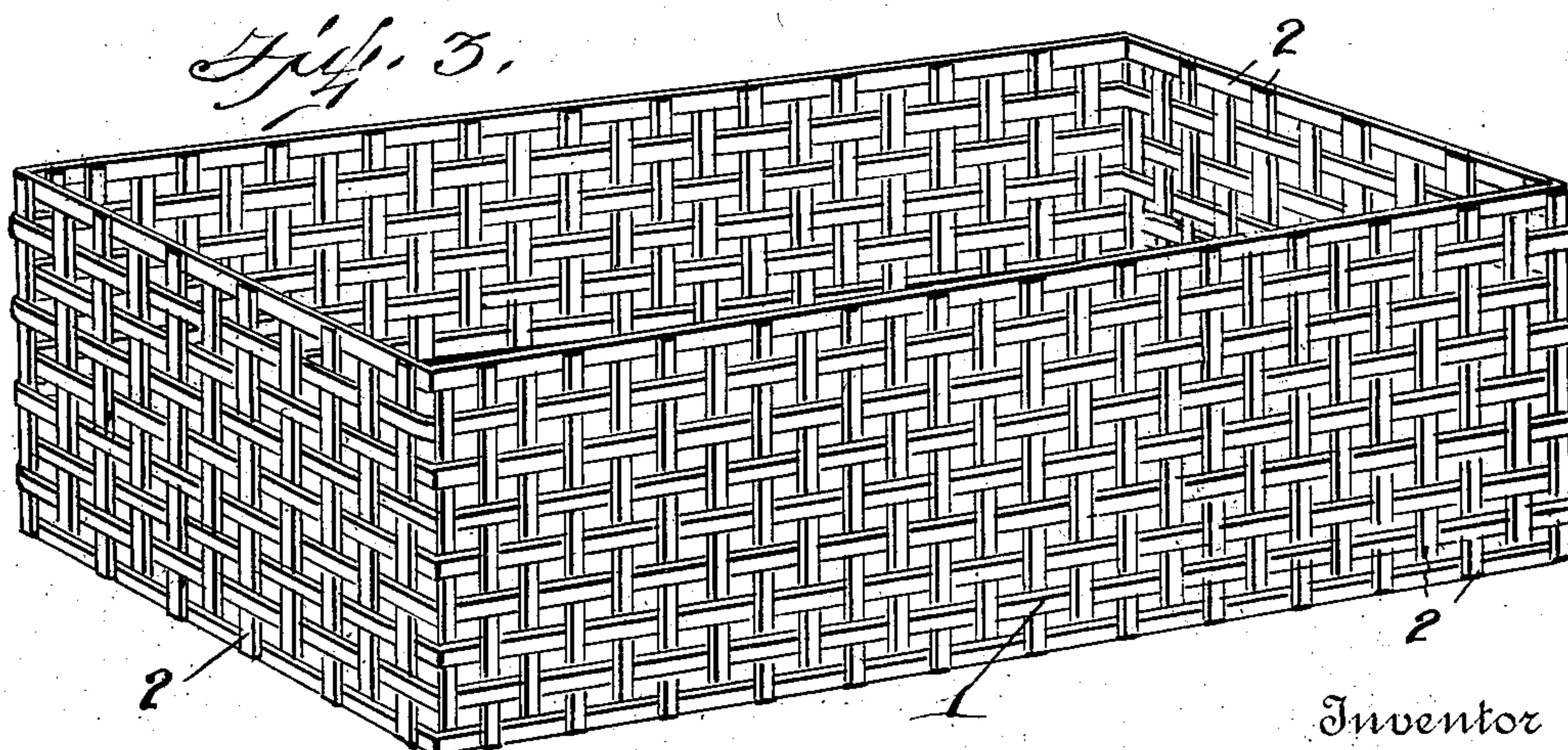
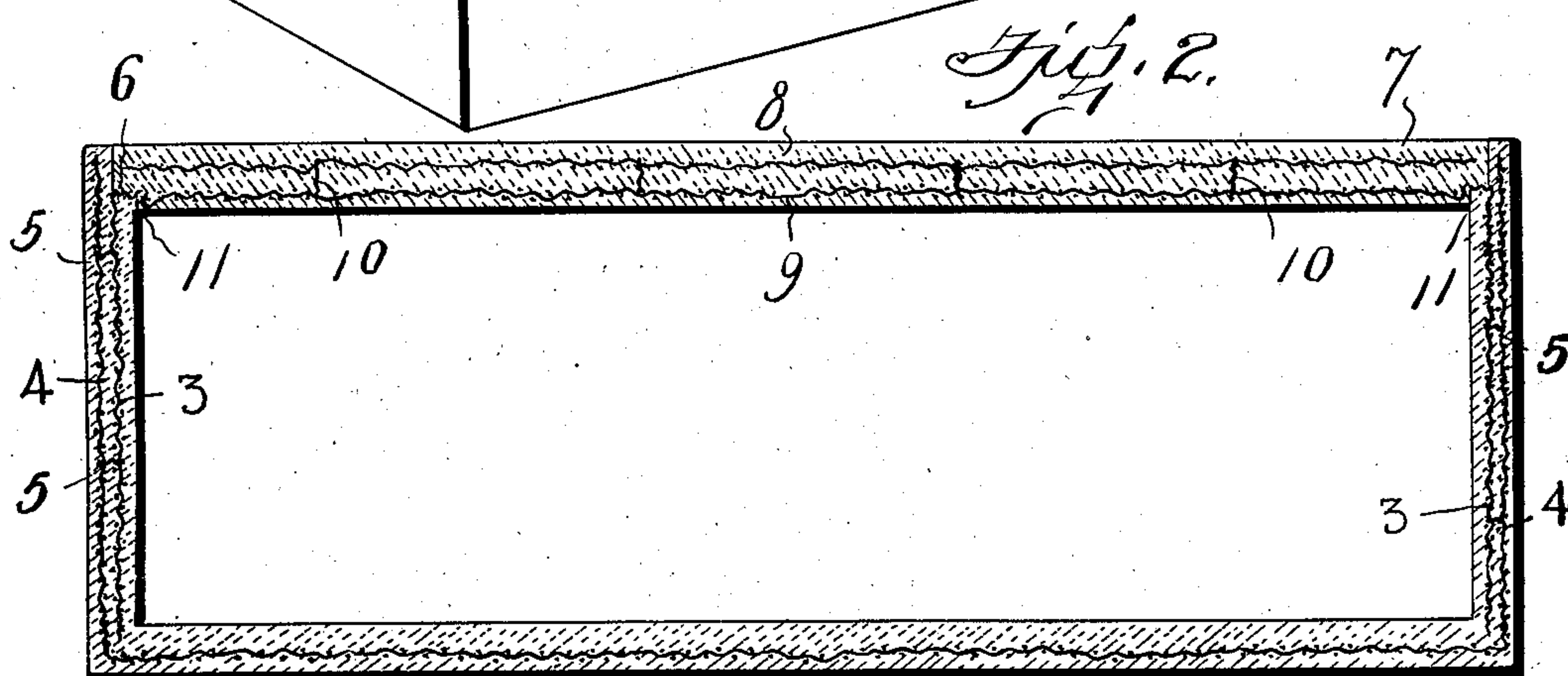
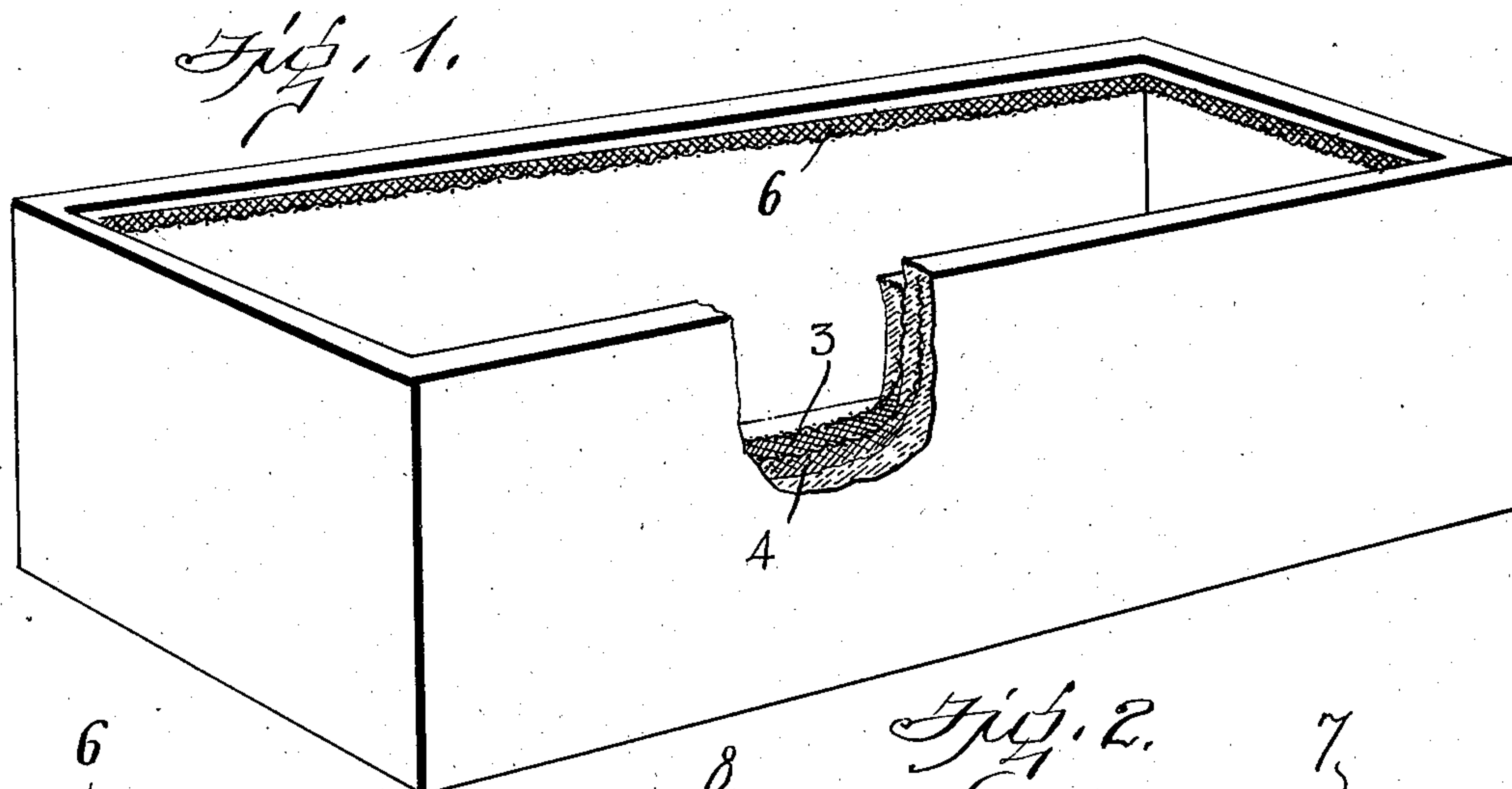
No. 860,184.

PATENTED JULY 16, 1907.

S. W. BECKWITH.

METHOD OF CONSTRUCTING CEMENT BURIAL VAULTS.

APPLICATION FILED JUNE 28, 1906.



Witnesses

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METHOD OF CONSTRUCTING CEMENT BURIAL-VAULTS.

No. 860,184.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed June 28, 1906. Serial No. 323,793.

To all whom it may concern:

Be it known that I, SETH W. BECKWITH, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented certain new and
5 useful Improvements in the Method of Constructing Cement Burial-Vaults; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

10 This invention relates to improvements in methods of constructing burial vaults, and the principal object of the same is to improve the method of construction whereby a comparatively light, strong and durable vault is produced which can be made at comparatively
15 slight cost and which can be produced without expensive appliances.

Another object of the invention is to improve the method of construction whereby a strong and durable vault is made of cement or similar plastic mortar, by
20 unskilled labor and by means of simple appliances.

These and other objects are attained by means of the construction illustrated in the accompanying drawings, in which:—

25 Figure 1 is a perspective view of the body portion of a vault made in accordance with my invention, a portion of the vault being broken away to illustrate in section the construction of the same; Fig. 2 is a longitudinal sectional view of the vault with the cover placed thereon; and Fig. 3 is a perspective view of the form
30 over which the vault is constructed

The improved method of constructing vaults and like structures shown and described consists first in constructing a suitably supported shell or core and arranging one or more sheathings of wire cloth over the
35 core and applying a sufficient quantity of cement of suitable consistency to the outer surface of the sheathing to produce the requisite outer thickness, and thence remove the core or shell and applying a sufficient quantity of the cement to the interior of the surfaces of
40 the sheathing to produce a requisite inner thickness and thus complete the structure.

Another step in the improved method consists in bending the upper edge of the wire cloth material inwardly at right angles to the body of the same, before
45 the inner coating of cement is applied, and applying the inner coating of cement beneath the inwardly bent portion of the sheathing at the same time that it is applied to the inner surface of the same, whereby a cover supporting shoulder is produced around the interior of
50 the vault when completed.

Referring to the drawings for a more particular description of my invention, the numeral 1 represents a form over which the vault is adapted to be constructed. This form consists of an open-work box or frame
55 made up of spaced longitudinal bars and cross bars 2, as shown in Fig. 3, said form being of the required

shape and size for the purpose intended, the parts of said form being readily detachable, so that when the vault has been formed over it and dried; the parts of the box may be removed.

60 Secured around the outer surface of the box or form is a layer of open-work wire cloth 3, this layer forming the inner layer. Secured to this layer is an outer layer of similar wire cloth 4, and the two layers are secured together by short pieces of wire 5. It is to be noticed
65 that the inner layer is of less height than the outer layer and is bent over at the upper portion, as at 6, to provide a ledge or shoulder to support the cover when placed therein. After the layers of wire have been placed upon the form, cement or a mixture of cement,
70 sand and water of the proper consistency to form a mortar is applied to the outer layer of wire cloth, and the cement interlocking through the interstices of the wire cloth.

75 It will be understood that the sides, ends and bottom of the vault is covered with the plastic cement or mortar and is then permitted to dry. After the plastic material has become thoroughly set and dried, the form is removed from the inside and cement is applied to the inner layer of wire cloth, the thickness of the
80 layers upon the outside and inside depending upon circumstances and conditions for use.

It is to be noted that the ledge 6 or shoulder for supporting the top or cover of the vault is reinforced by the bent over portions of the inner layer of wire cloth,
85 as shown in Fig. 2. The top or cover 7 of the vault is also provided with two layers of wire cloth 8, 9, connected by short pieces of wire 10 and cement applied thereto in a manner similar to the body of the box, and at the outer edge of the top or cover a recess 11 is
90 formed by bending back the lower layer of wire cloth and forming a recess or shoulder similar to the ledge within the vault. When the cover is placed in position upon the ledge and the vault is ready for use, the recess around the top of the cover is cemented or sealed
95 with cement, as will be understood.

From the foregoing, it will be obvious that my vault is of simple construction and may be made without expensive appliances, and can be produced by comparatively unskilled labor at slight cost; that the device
100 is strong and durable, and that the outer and inner layers of cement interlock between the interstices or openings in the wire cloth layers.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention, as defined by the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters-Patent is:— 110

1. The method of constructing vaults consisting in applying wire cloth to a removable form, applying cement to

the outer surface of the wire cloth, permitting the same to dry, removing the form and applying cement to the inner surface of the wire cloth and permitting the same to dry.

- 5 2. The method of constructing vaults consisting in applying wire cloth to a removable form, applying cement to the outer surface of the wire cloth, permitting the same to dry, removing the form and bending the upper edge of the wire cloth inwardly, and applying cement to the inner surface of the wire cloth and beneath said inwardly bent portion.

- 10 3. The method of constructing vaults consisting in applying a plurality of layers of wire cloth to a removable form and coupling the wire cloth layers at intervals, applying cement to the outer surface of the wire cloth, re-

moving the form, and applying cement to the inner surface of the wire cloth.

4. The method of constructing vaults consisting in applying wire cloth to a removable form, applying cement to the outer surface of the wire cloth, removing the form, bending the upper portion of the inner layer of wire cloth inwardly, and applying cement to the inner surface of the wire cloth and beneath said inwardly bent portion. 20

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

SETH W. BECKWITH.

Witnesses:

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