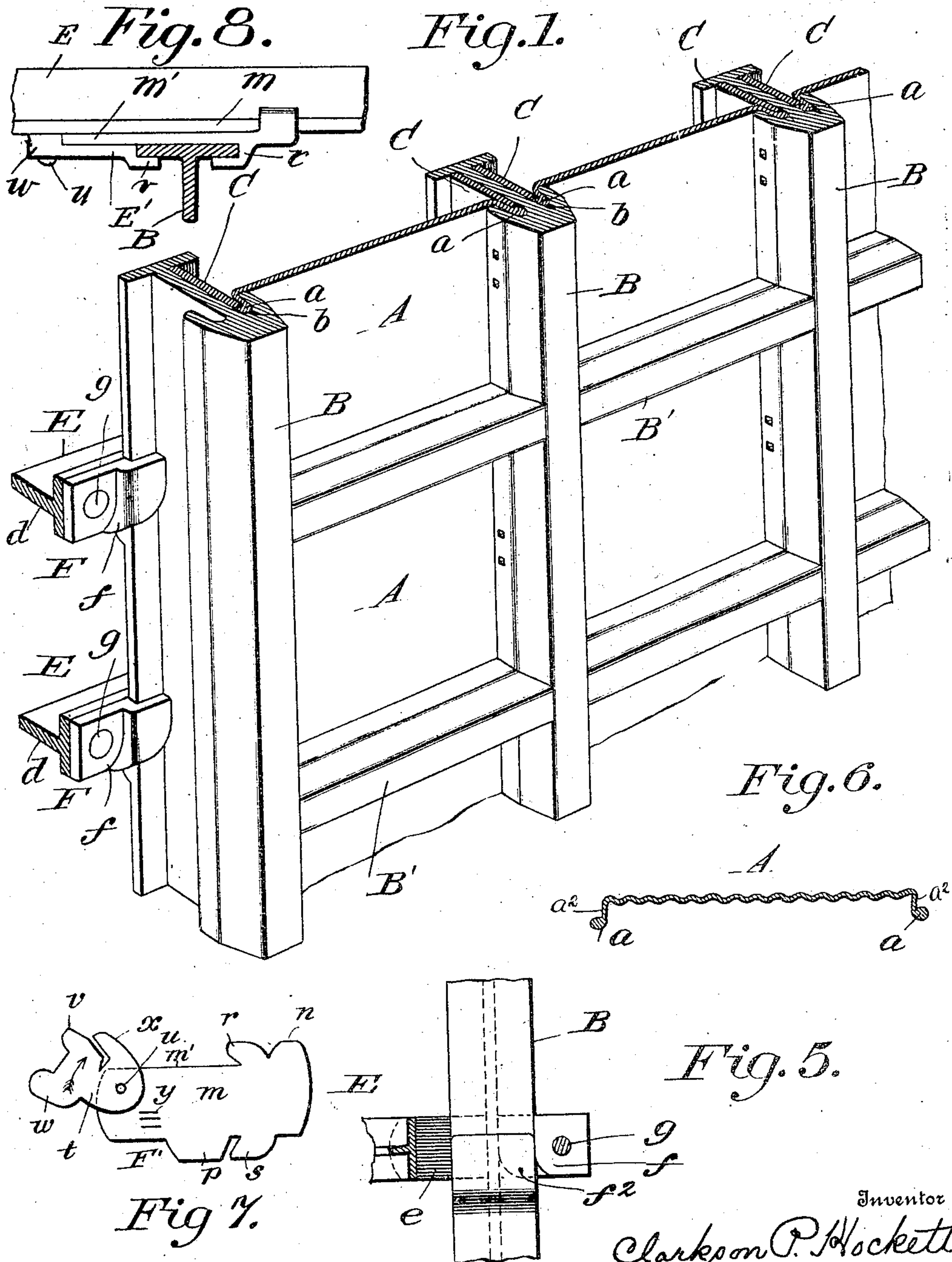


C. P. HOCKETT.
MOLD FOR FORMING WALLS OR BUILDINGS OF CEMENT OR CONCRETE.
APPLICATION FILED MAR. 21, 1908.

Patented Mar. 8, 1910.
2 SHEETS—SHEET 1.

951,120.



Witnesses

Phil E. Barnes
R. C. Braddock.

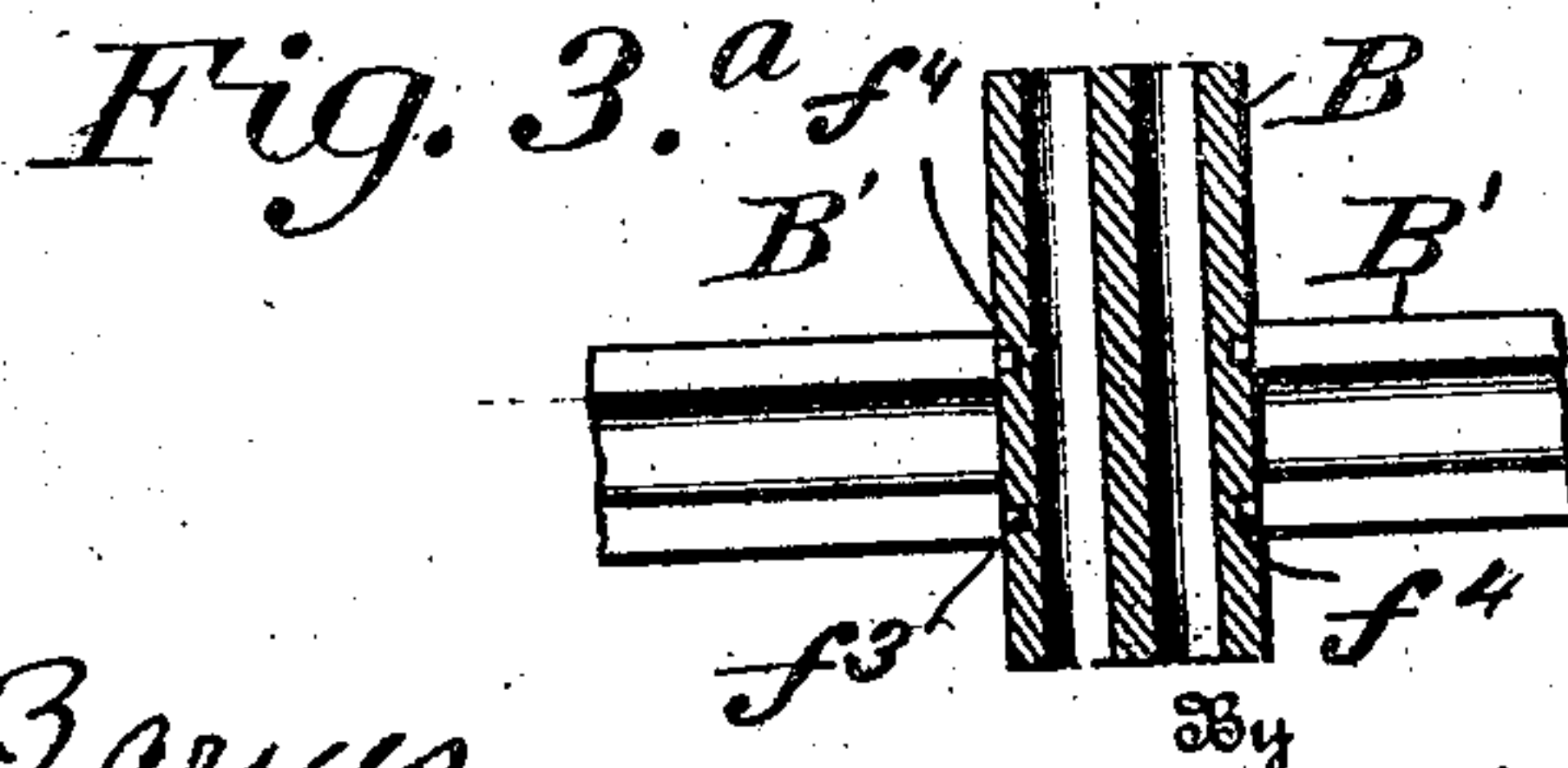
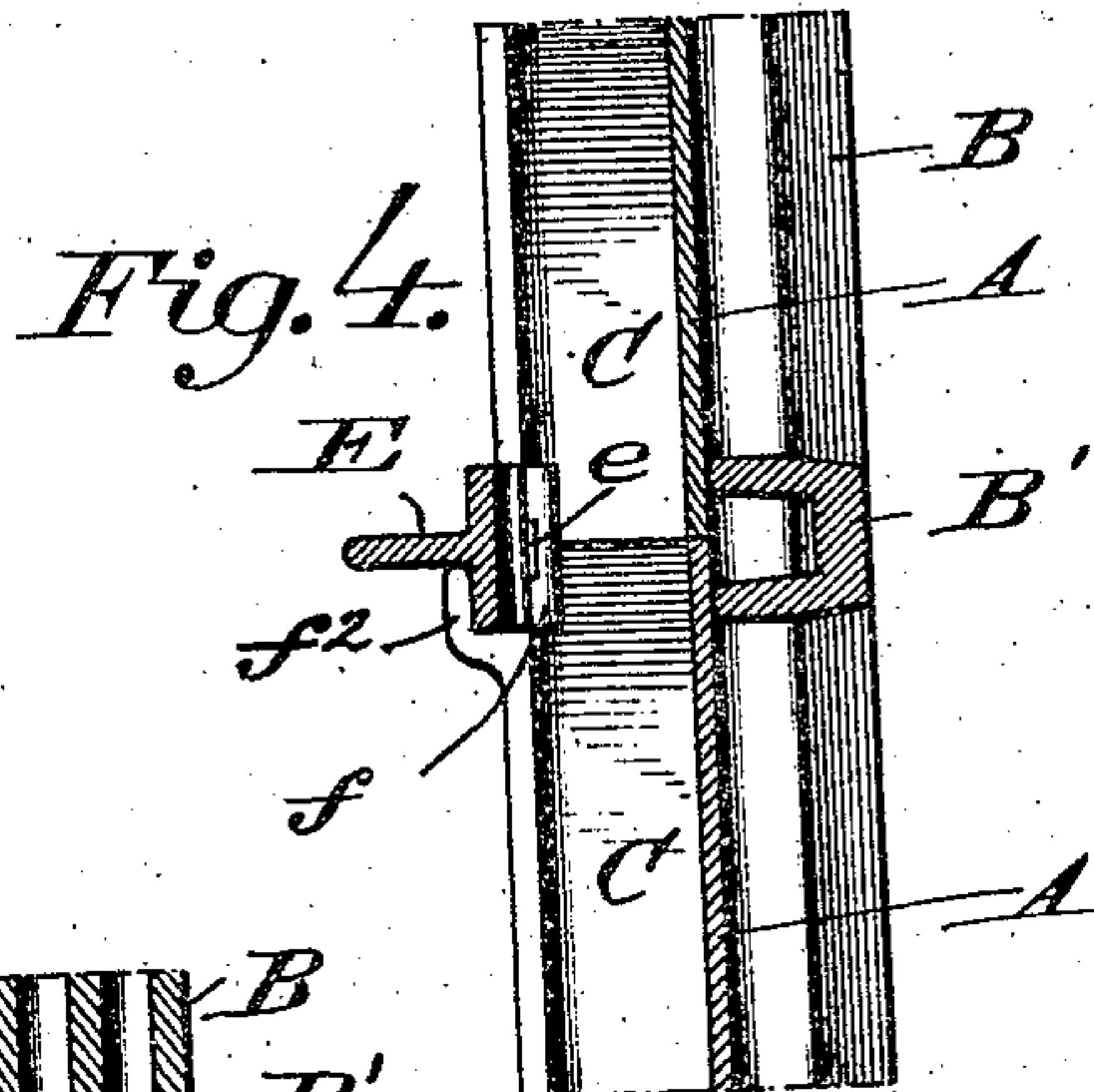
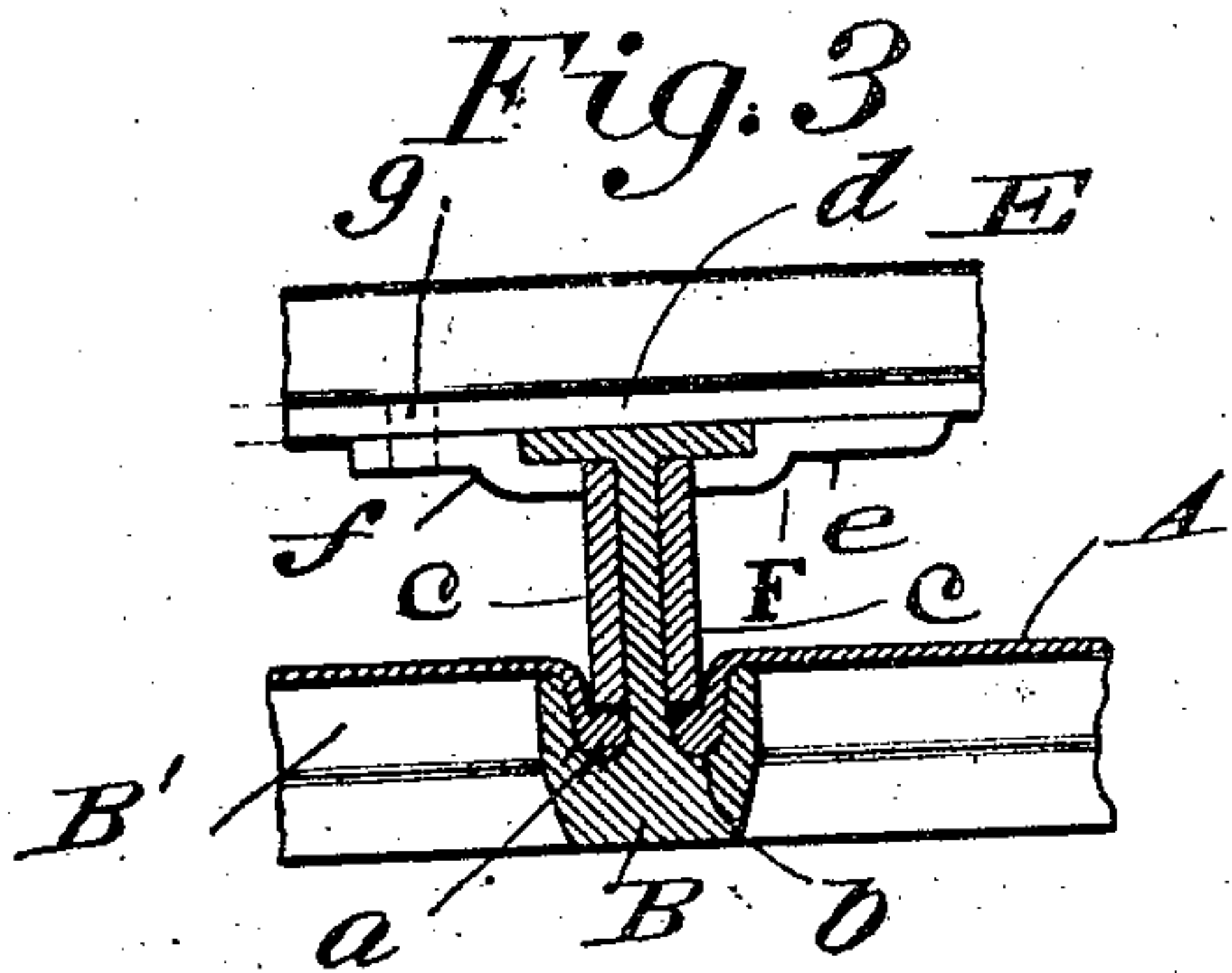
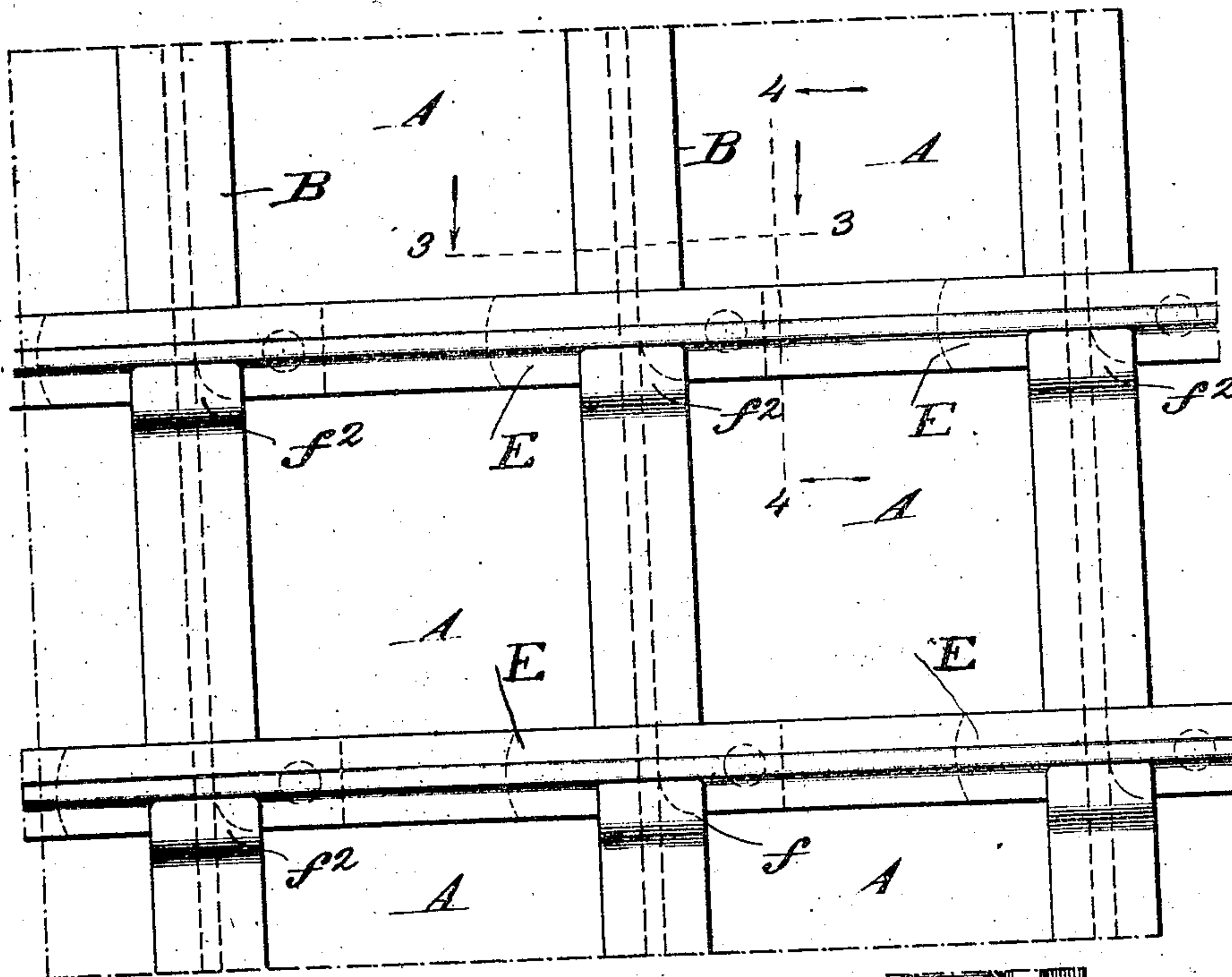
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Clarkson P. Hockett
By William D. Deane
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Fig. 2.



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UNITED STATES PATENT OFFICE.

CLARKSON P. HOCKETT, OF KOUTS, INDIANA.

MOLD FOR FORMING WALLS OR BUILDINGS OF CEMENT OR CONCRETE.

951,120.

Specification of Letters Patent.

Patented Mar. 8, 1910.

Application filed March 21, 1908. Serial No. 422,443.

To all whom it may concern:

Be it known that I, CLARKSON P. HOCKETT, a citizen of the United States, residing at Kouts, in the county of Porter and State of Indiana, have invented certain new and useful Improvements in Molds for Forming Walls or Buildings of Cement, Concrete, or Analogous Materials, of which the following is a specification:

My invention relates to molds for forming walls or buildings of cement, concrete or analogous materials; and it has for one of its objects to provide a simple and durable mold constructed with a view of forming in the face of a plastic wall lines simulating the spaces ordinarily present between the blocks of a stone building.

Another object of the invention is the provision of a mold the major portion of which is formed of metallic sheets pressed into forms of the shapes necessary to give desired configurations to the surface of the larger part of a wall.

Another object is the provision in a mold, of metallic forms in combination with form-holding bars in which the forms are detachably secured, whereby when deemed expedient some or all of the forms may be removed and replaced with forms of different character or of different sizes.

Another object is the provision in a mold of the character stated of a frame comprising form-holding bars the ends of some of which are cut to fit the sides of others, this in order that the direction of the lines simulating the lines between stones or bricks may be changed in the discretion of the builder.

Other objects and advantages of the invention will be fully understood from the following description and claims when the same are read in connection with the drawings, accompanying and forming part of this specification, in which:

Figure 1 is a sectional perspective view of a mold constituting the best practical embodiment of my invention of which I am aware. Fig. 2 is an elevation of the rear side of the mold. Fig. 3 is a detail section taken in the plane indicated by the line 3-3 of Fig. 2, looking in the direction indicated by arrow. Fig. 3^a is a detail section illustrative of the manner in which I prefer to join the form-holding bars of the mold. Fig. 4 is a detail vertical section taken in the plane indicated by the line 4-4 of Fig. 2,

looking in the direction indicated by arrow. Fig. 5 is a detail view, partly in elevation and partly in section, showing one type of clamp adapted for use in my improvements. Fig. 6 is a detail section showing a rough or nature-simulating form comprised in my improvements. Fig. 7 is a view showing in flat form a sheet-metal clamp which may be employed in lieu of the clamp shown in Fig. 5. Fig. 8 is a view showing said clamp in use.

Referring by letter to the said drawings and more particularly to Figs. 1 to 6, thereof: A A are the forms of my novel mold, which for the sake of cheapness and lightness as well as the facility with which they may be shaped are pressed or otherwise formed of sheet-metal. These forms A have for their function to impart to the face of a plastic wall the shape or appearance desired, and they are provided with flanges *a*² disposed at approximate right angles to their major portions, the edges of which flanges are bent, rolled or otherwise enlarged, as indicated by *a*, for a purpose which will presently be pointed out. At this point I would have it understood that my invention contemplates the provision of a number of forms A of different shapes and sizes, see Figs. 1 and 6, for use interchangeably in the mold.

B B¹ are the form-holding bars of the mold, which are preferably of metal. These bars B B¹ each have one or two grooves *b* according to their location in the mold, which grooves *b* receive the edge-enlargements *a* of the forms A and also receive removable form-retaining keys C designed, as their name implies, to hold the forms in engagement with the bars B B¹ and this in such manner that pressure within the mold does not displace the keys and there is no liability of the keys being displaced when the mold is in use. When, however, it is desired to remove the forms A from the bars B B¹ the said keys C may be expeditiously and easily removed from the bars after which the forms may be as readily disengaged from the bars. As will be readily observed by reference to Fig. 1 the bars B B¹ outline the edges of the sheet-metal forms A; also, the bars extend forward beyond the forms and hence are adapted to form depressions in the face of a plastic wall with a view of making the latter appear as though built of stones, blocks or bricks. It will

also be observed by reference to the drawings and particularly to Figs. 1 and 3^a, that the ends of the bars B¹ are cut to fit the sides of the other bars B and consequently the direction of the lines in the surface simulating stones, blocks or bricks may be changed at will. The bars B and B¹ are detachably connected together, the preferred mode being through the medium of studs f³ on the bars B¹ disposed in sockets f⁴ in the bars B.

By preference the form-holding bars B are provided with comparatively broad outer edges and are backed and crossed by frame bars E, of I-form, or other suitable shape in cross-section, which bars E are connected with the bars B through the medium of clamps which may be of any construction consonant with the purpose of my invention without involving departure from the scope of the same as claimed. The clamps F shown in Figs. 1 to 5 are similar in construction and therefore a detailed description of the one shown in Figs. 3 and 5 will suffice to impart a definite understanding of all. The said clamp F, Figs. 3 and 5, comprises a bar portion d having a hook-shaped enlargement e to engage one side of its complementary bar B, and a hook-shaped member f pivoted at g on the bar portion d and arranged in the position shown to hold the bar B and when swung to a position at right angles to that illustrated, to release the said bar B. As shown in Figs. 2, 4 and 5, the bars B are provided with lugs f² in which the bars E are arranged and supported. It will be observed that these clamps maintain the keys C against lateral displacement.

In lieu of the clamps F, sheet-metal clamps F¹, one of which is shown in flat form in Fig. 7, may be employed, in which case the lugs f² on the bars B will be dispensed with. The said clamp F¹ comprises a body m adapted to be interposed between a bar B and a bar E and having ears n and p adapted when bent to receive opposite edges of the flange on bar E and also having ears r and s adapted when bent in the opposite direction, with reference to the ears n and p, to receive one edge of the flange on bar B, and a swinging member t, pivoted at u to the body m and having an ear v adapted when bent to receive the opposite edge of the flange on bar B and retain said bar in engagement with the ears r and s. The said swinging member t is swung in the direction indicated by arrow into engagement with the bar B and is equipped with an ear w and a tongue x; the said ear w being designed to be bent around the edge m¹ of the body m to resist the pressure of bar B against ear v, and the tongue x being arranged to engage one of the series of stops y on body m with a view of preventing casual movement of the member t in the direction

opposite to that indicated by the arrow. It will be noticed, however, that when the tongue x is pried out of engagement with a stop y, the member t may be readily swung outward—i. e., in the direction opposite to that indicated by the arrow. It will be observed in this connection that the ears n and p not being opposite the flange on bar E are easily caught when the body m is turned to a position substantially parallel with said bar; also, that when clamps such as F¹ are employed smooth and straight bars B and E may be employed, and the points of intersection thereof may be readily changed at will.

It will be gathered from the foregoing that my novel mold is adapted to be used with great facility in the production of walls or buildings of plastic material; also, that the mold is simple and strong in construction and is not unduly heavy, and that when occasion demands some of the forms A may be readily removed and as readily replaced with larger or smaller forms or forms corresponding in size but different in shape or configuration.

As before stated the construction herein shown and described constitutes the best practical embodiment of my invention of which I am cognizant, but I would have it understood that in the future practice of the invention such changes may be made in the form, construction and relative arrangement of the parts as fairly fall within the scope of my invention as defined in the claims appended.

Having described my invention, what I claim and desire to secure by Letters Patent, is:

1. In a mold of the character described, the combination of form-holding bars comprising broad outer edges, inner portions grooved at their outer sides and webs connecting the broad outer edges and the inner portions, a form having offset flanges arranged in the grooves in the inner portions of the form-holding bars, said flanges having terminal enlargements on their rear sides and keys interposed between said enlargements of the form and the broad outer edges of the form-holding bars, and being disposed in rear of the flanges.

2. In a mold of the character described, the combination of form-holding bars comprising broad outer edges, inner portions grooved at their outer sides and webs connecting the broad outer edges and the inner portions, a form having a major portion, side flanges disposed at substantially right angles to the major portions and of equal thickness therewith, and enlargements on the rear sides of and at the edges of the flanges and being disposed in the grooves in the inner portions of the form-holding bars, and keys interposed between said edge portions

of the form and the broad outer edges of the form-holding bars, and being located against the rear sides of the flanges.

3. A mold of the character described, comprising form-holding bars having inner portions grooved at their outer sides, a form comprising a major portion, side flanges disposed at right angles to the major portion, and enlargements on the rear sides of and at the edges of said flanges, disposed in the grooves in the outer sides of the inner portions of the bars, and keys interposed between said enlargements on the flanges of the form and opposed abutments on the bars, said keys fitting in the grooves of the bars in rear of the form flanges.

4. A mold of the character described, comprising spaced form-holding bars having inner enlarged portions and rearwardly extending webs, transversely disposed form-bars located between the form-holding bars, said transverse bars being of equal thickness, in line with and corresponding in exterior configuration to the enlarged portions of the form-holding bars, forms extending between the form-holding bars and in rear of the transverse bars, and means detachably securing the forms to the form-holding bars.

5. A mold of the character described, comprising spaced form-holding bars having inner enlarged portions and rearwardly extending webs, said enlarged portions having grooves in their rear sides on opposite sides of the webs, transversely disposed form bars located between the form-holding bars, said transverse bars being of equal thickness, in line with and corresponding in exterior configuration to the enlarged portions of the form-holding bars, detachable stud connections between the ends of the transverse bars and the form-holding bars, forms extending between the form-holding bars in rear of the transverse bars, said forms having flanges engaged in the grooves, and means for retaining said flanges in said grooves.

6. In a mold of the character described, the combination with form-holding bars, of forms detachably mounted thereon, securing means for said forms, frame bars, and common means for securing the frame bars to the holding bars and maintaining said securing means in place.

7. In a mold of the character described, the combination with form-holding bars, of forms detachably mounted thereon, securing means for said forms, frame bars extending transversely of the form-holding bars, and clamps securing the frame and form-holding bars together and engaging the securing means to retain the same in position.

8. In a mold of the character described, the combination with form-holding bars, of

forms detachably engaged therewith, keys detachably engaging the forms and bars to maintain the forms in place, frame bars extending transversely of the rear sides of the form-holding bars, and clamps securing the frame bars to the holding bars, said clamps engaging the keys and maintaining them against displacement.

9. In a mold of the character described, the combination with form-holding bars having enlarged inner portions provided with grooves and rearwardly extending webs located between the grooves, of forms arranged between the bars and having enlargements engaged in the grooves, keys abutting against the enlargements and arranged on opposite sides of the webs, frame holding bars extending transversely of the rear sides of the form-holding bars, and clamps for securing the frame and form holding bars together, said clamps engaging the keys to maintain them against lateral displacement.

10. In a mold of the character described, the combination of form-holding bars, frame bars arranged back of the same, and interposed clamps arranged on the frame bars and respectively comprising hook-shaped portions to engage a form-holding bar; one of which portions is movable with respect to the form holding bars.

11. In a mold of the character described, the combination of horizontal form-holding bars, frame bars arranged back of the form-holding bars, and clamps supported on the frame bars and respectively comprising hook-shaped portions to engage a form-holding bar, one of which hook-shaped portions is pivoted and adapted to swing.

12. In a mold of the character described, the combination of a form holding bar, a frame bar arranged back of the same, and a clamp comprising a body interposed between the bars and having ears engaging the same, and a swinging member pivoted to the body and arranged to be swung into and out of engagement with one of the bars.

13. In a mold of the character described, the combination of a form holding bar, a frame bar arranged back of the same, a clamp comprising a body interposed between the bars and having ears engaging the same, a swinging member pivoted to the body and having means for engaging one bar and also having means for engaging the body, and cooperating means on the body and swinging member for preventing casual movement of the latter.

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

CLARKSON P. HOCKETT.

Witnesses:

J. A. HODGINS,

L. W. SHAFFNER.