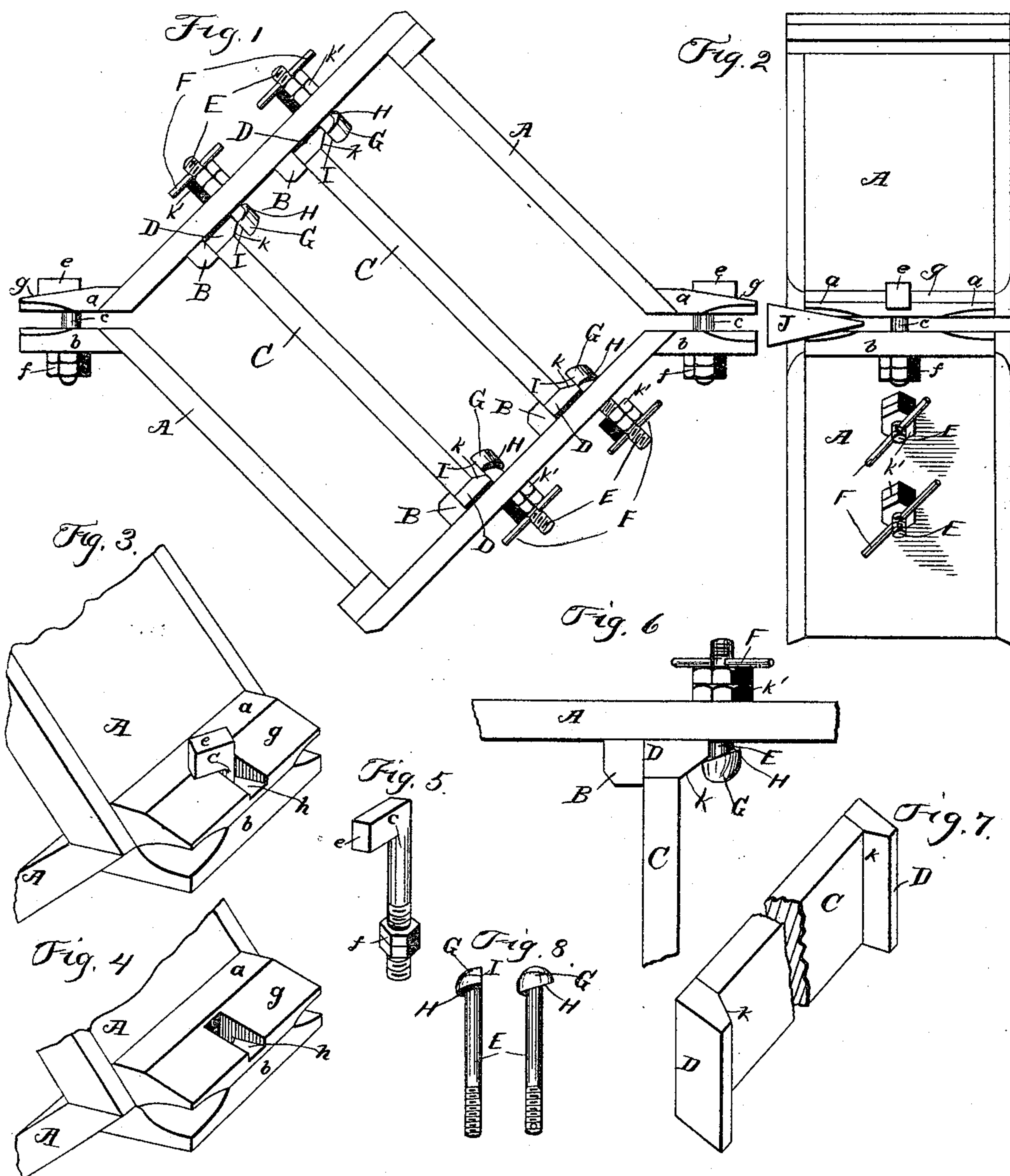


(No Model.)

F. BAUGH.
MOLDER'S FLASK.

No. 451,017.

Patented Apr. 28, 1891.



Witnesses
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UNITED STATES PATENT OFFICE.

FREDERICK BAUGH, OF ALLIANCE, OHIO.

MOLDER'S FLASK.

SPECIFICATION forming part of Letters Patent No. 451,017, dated April 28, 1891.

Application filed March 4, 1891. Serial No. 383,696. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK BAUGH, a citizen of the United States, residing at Alliance, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Molders' Flasks; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a top view showing the flask open and the partitions released. Fig. 2 is a side view showing the flask open and a wedge properly located to prevent the top or upper edge from binding against the ends of the partitions. Fig. 3 is a view of one corner of the flask, showing the joint closed and locked. Fig. 4 is a view of one corner of the flask, showing the clamping-bolt removed. Fig. 5 is a detached view of one of the corner-clamping bolts. Fig. 6 is a view of a portion of a flask, showing the binding-bolt in proper position to bind or hold the end of the partition against the side of the flask proper. Fig. 7 is a detached view of one of the partitions. Fig. 8 is a detached view of the binding-bolt, showing the same in different position.

The present invention has relation to molders' flasks; and it consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claims.

Similar letters of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, A represents the sections of a flask, which may be of the form shown in the drawings, or they may be of any other desired form, and it will be understood that said sections are to be constructed of any desired size. The sections A are each provided with the arms or extensions *a* and *b*, which are located substantially as shown in the drawings, and are securely attached to the sections A in any convenient and well-known manner.

For the purpose of securely uniting and holding the sections A together the clamping-bolts *c* are provided, which clamping-bolts

pass through apertures in the arms *a* and *b*. The clamping-bolts *c* are provided with the heads *e* and the screw-threaded nuts *f*. The arms *a* are provided with the inclined faces *g* and the recesses or notches *h*, which notches are for the purpose of receiving the heads *e* when the sections A are parted, as illustrated in Fig. 1. The inclined faces *g* are for the purpose of causing the clamping-bolts *c* to bind the arms *a* and *b* together, and thereby close the sections A. To the side pieces of the sections A are attached in any convenient and well-known manner the ribs B; or, if desired, said ribs may be formed integral with the sections A.

The partitions C may be located as illustrated in Fig. 1, or, if desired, they may be located at any other desired points. In Fig. 1 two partitions C are illustrated; but it will be understood that any desired number of partitions may be used, and it will be also understood that said partitions may extend in the opposite direction from that shown in Fig. 1, if so desired. Each end of the partitions C is provided with the flange D, and the flange is provided with the beveled or inclined face *k*.

The binding-bolts E may be located substantially as illustrated in Figs. 1, 2, and 6, and, as shown in said figures, one binding-bolt is shown located at each end of the partitions C; but it will be understood that two or more binding-bolts may be located at each of the partitions, reference being had to depth of the flask proper. The binding-bolts E are provided with the screw-threaded nuts *k'* or their equivalents. For the purpose of rotating the binding-bolts E the pins F are provided, said pins being located substantially as illustrated in the drawings, and may be of any desired length. The inner ends of the binding-bolts E are provided with the heads G, said heads being provided with or having the spiral shoulders H, which spiral shoulders are for the purpose of engaging the inclined faces *k* of the flanges D. It will be understood that when the binding-bolts E are turned in one direction, the spiral shoulders H will draw the ends of the partitions C against the inner sides of the flask-sections A, and thereby securely lock or bind said partitions C to the flask proper. When the binding-bolts E are

rotated in the opposite direction, the spiral shoulders H will be disengaged from the inclined faces *k*, thereby releasing the partitions C from the flask sections A. For the purpose of fully withdrawing or removing the binding-bolts E out of contact with the flanges D the heads G are each provided with the flat faces I.

In use the sections A are securely clamped together by means of the arms or extensions *a* and *b* and the clamping-bolts *c*, after which the partitions C are placed in the desired position and securely locked or clamped by means of the binding-bolts E. If desired, the partitions C may be locked first. After the sections of the flask have been securely locked together and the partitions C properly secured the flask is in condition for use. When the castings have been made and it is desired to remove the flask from the sand, the sections A are released and the partitions C unlocked, at which time the sections A may be removed from the sand, thus leaving the partitions C in their original positions, after which they are removed as the sand is taken away from around the casting. For the purpose of preventing the top of the flask from binding against the ends of the partitions C the wedge J may be inserted between the sections A, as illustrated in Fig. 2, thereby securely holding

the sections A apart during the time they are being removed from the sand.

It will be understood that two flasks or sections are to be used and one section placed on the top of the other and said sections clamped together in any convenient and well-known manner.

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

1. The combination of the partible sections A, the ribs B, the partitions C, provided with the flanges D, having the inclined faces *k*, the binding-bolts E, provided with the heads G, and the spiral shoulders H, substantially as and for the purpose specified.

2. The combination of the flask-sections A and means for securing said sections together, the partitions C, provided with the flanges D, the binding-bolts E, provided with the spiral shoulders H, and the operating-pins F, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

FREDERICK BAUGH.

Witnesses:

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CONRAD W. KOCH.