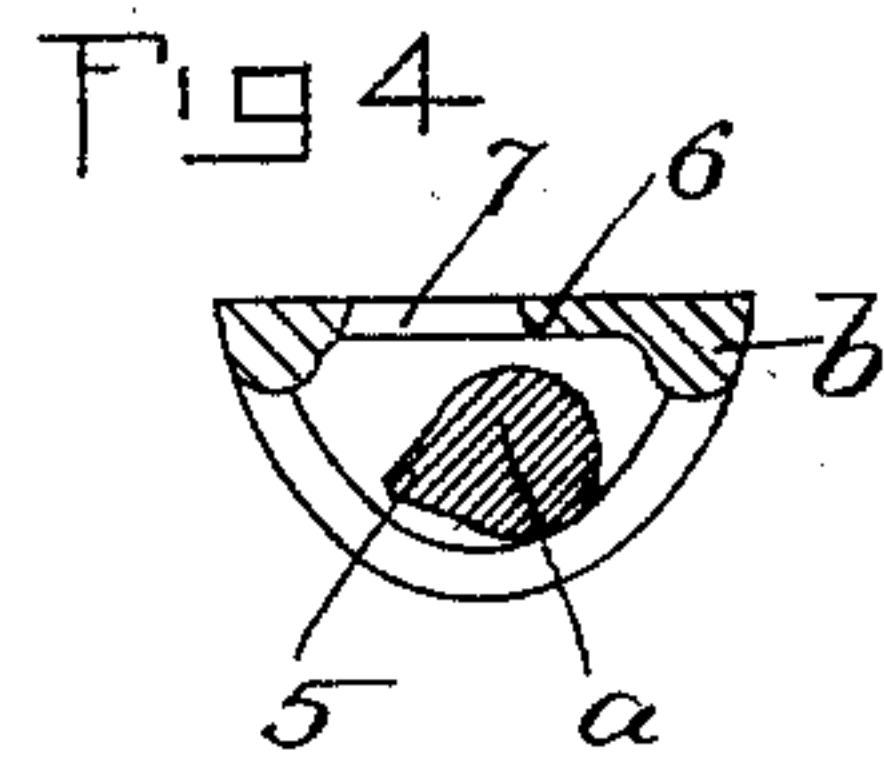
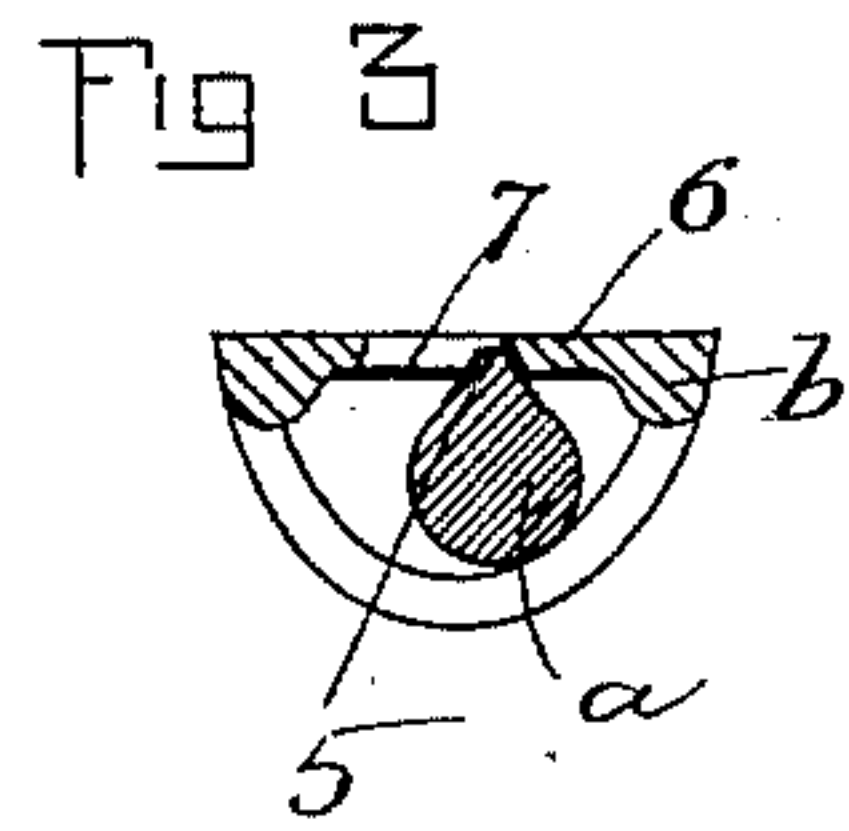
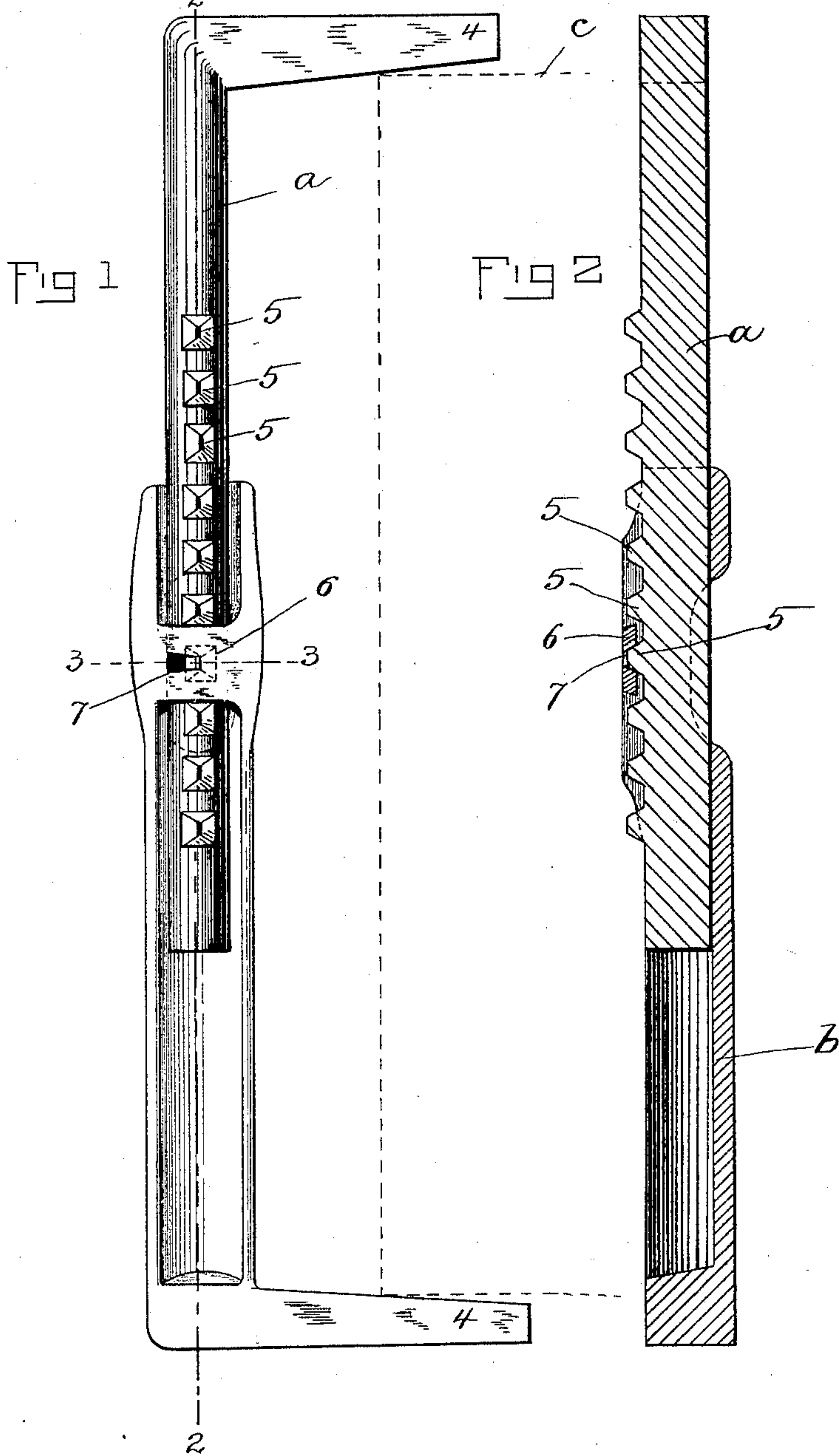


(No Model.)

A. C. ALLBEE.  
MOLDER'S FLASK CLAMP.

No. 450,820.

Patented Apr. 21, 1891.



WITNESSES

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# UNITED STATES PATENT OFFICE.

ALEXANDER C. ALLBEE, OF WAKEFIELD, ASSIGNOR OF ONE-HALF TO WM. F. SAVAGE, OF LYNN, MASSACHUSETTS.

## MOLDER'S FLASK-CLAMP.

SPECIFICATION forming part of Letters Patent No. 450,820, dated April 21, 1891.

Application filed July 10, 1890. Serial No. 358,282. (No model.)

*To all whom it may concern:*

Be it known that I, ALEXANDER C. ALLBEE, of Wakefield, in the county of Middlesex and State of Massachusetts, have invented certain  
5 new and useful Improvements in Molders' Flask-Clamps, of which the following is a specification.

This invention has for its object to provide  
10 a simple and effective adjustable clamp for use in foundries to secure together the separable parts or sections of the flasks in which castings are made; and it consists in a clamp of the improved construction, which I will now proceed to describe.

15 Of the accompanying drawings, forming a part of this specification, Figure 1 represents a side elevation of my improved clamp. Fig. 2 represents a section on line 2 2, Fig. 1. Fig. 3 represents a section on line 3 3,  
20 Fig. 1, and Fig. 4 represents a similar section showing one of the parts in a different position.

The same letters or numerals of reference indicate the same parts in all the figures.

25 My improved clamp is composed of two parts or sections *a b*, formed, as presently described, to interlock with each other, and provided at their outer ends with lugs 4 4, which, when the clamp is adjusted for use,  
30 bear on the top and bottom of the flask *c*, a portion of the latter being shown in dotted lines in Fig. 1.

The section *a* is a cylindrical iron rod, on the periphery of which are formed several  
35 pyramidal or conical projections 5, arranged in a row, as shown in Fig. 1. The section *b* is longitudinally grooved to receive the section *a*, and has a bridge or cross-bar 6, which extends across the section *a* and has a taper-  
40 ing slot 7, formed to receive one of the projections 5 on the section *a*. The sides of the slot 7 are beveled to fit the inclined sides of the projection 5, as shown in Fig. 2, and are formed so that the slot gradually decreases  
45 in width from one end to the other, as shown in Fig. 1.

The section *a* is adapted to be turned in the section *b*, so that the projection 5 may be withdrawn from the slot 7, as shown in Fig.  
50 4, or inserted in said slot, as shown in Fig. 3, the change from each of said positions to the other being effected by partly rotating the section *a*.

When the section *a* is in the position

shown in Fig. 4, it is free to move endwise 55 in the section *b*, and thus lengthen or shorten the clamp. When the desired adjustment of the clamp has been effected, the section *a* is turned to the position shown in Fig. 3, and one of its projections 5 is thus caused 60 to enter the slot 7. The projection and slot are relatively formed so that when the projection is turned to the position shown in Figs. 1, 2, and 3 its sides bind tightly on the tapering and beveled sides of the slot 7, and 65 thus establish a firm frictional connection between the two sections, the projection being wedged into the slot so firmly that there is no liability of the accidental turning of one section on the other.

70 It will be seen that the plurality of projections 5 enables the clamp to be adjusted to various lengths, it being necessary only to move the section *a* while it is turned, as shown in Fig. 4, until the desired adjustment 75 is effected, and then lock the section *a* by turning the projection, which is in position to engage the slot 7, into said slot.

The lugs 4 are preferably inclined at their inner sides, as shown in Fig. 1, their inclina- 80 tion enabling them to bear firmly on the sides of the flask and press the sections thereof together, as will be readily seen.

The described clamp is simple and durable. Each of its parts is adapted to be cast in one 85 piece, and said parts are not liable to be accidentally separated and misplaced.

I claim—

1. The improved flask-clamp composed of the sections *a b*, one having a series of pro- 90 jections 5 and the other a cross-bar having a tapering slot 7, adapted to receive either of said projections, as set forth.

2. The combination of the cylindrical section *a*, having a lug 4 and a series of projec- 95 tions 5, and the grooved section *b*, having a lug 4 and a cross-bar 6, the latter being provided with a tapered slot 7, adapted to receive either of the projections 5, as set forth.

In testimony whereof I have signed my 100 name to this specification, in the presence of two subscribing witnesses, this 5th day of July, A. D. 1890.

ALEXANDER C. ALLBEE.

Witnesses:

CHAS. F. DAVENPORT,  
JOSEPH G. SAVAGE.