

No. 776,558.

PATENTED DEC. 6, 1904.

J. E. SJOBERG.  
SNATCH BLOCK.

APPLICATION FILED JAN. 27, 1904.

NO MODEL.

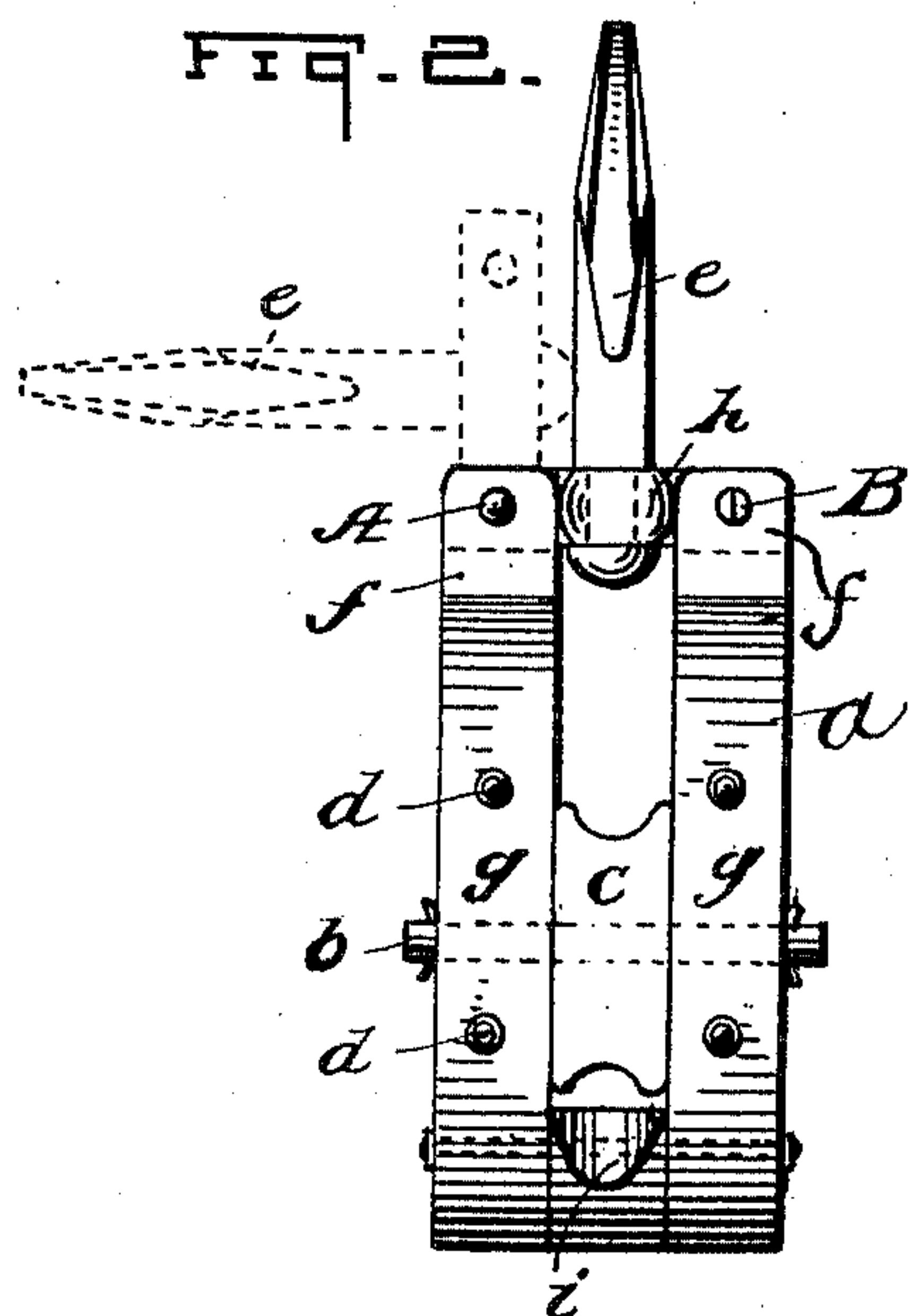
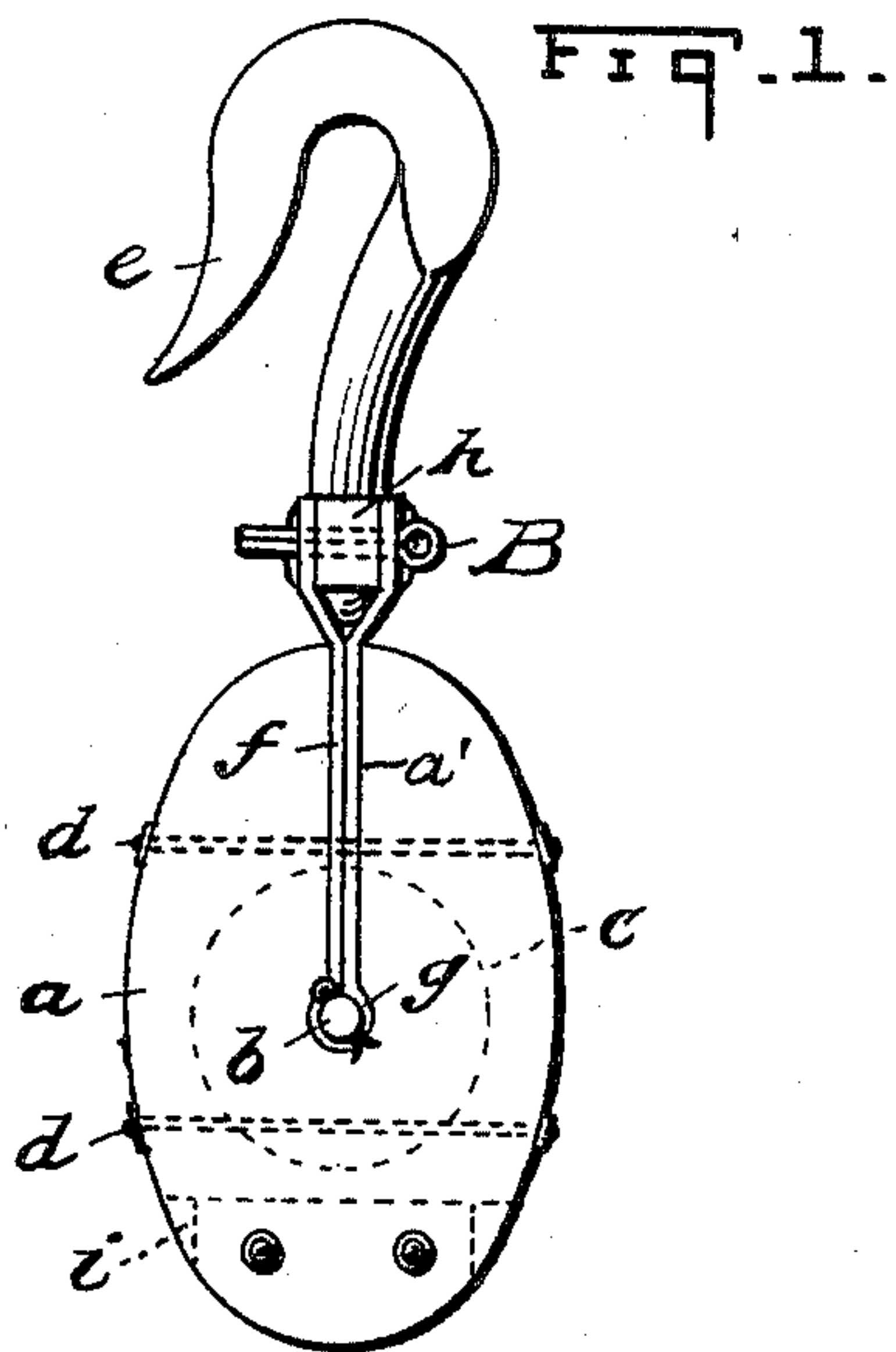
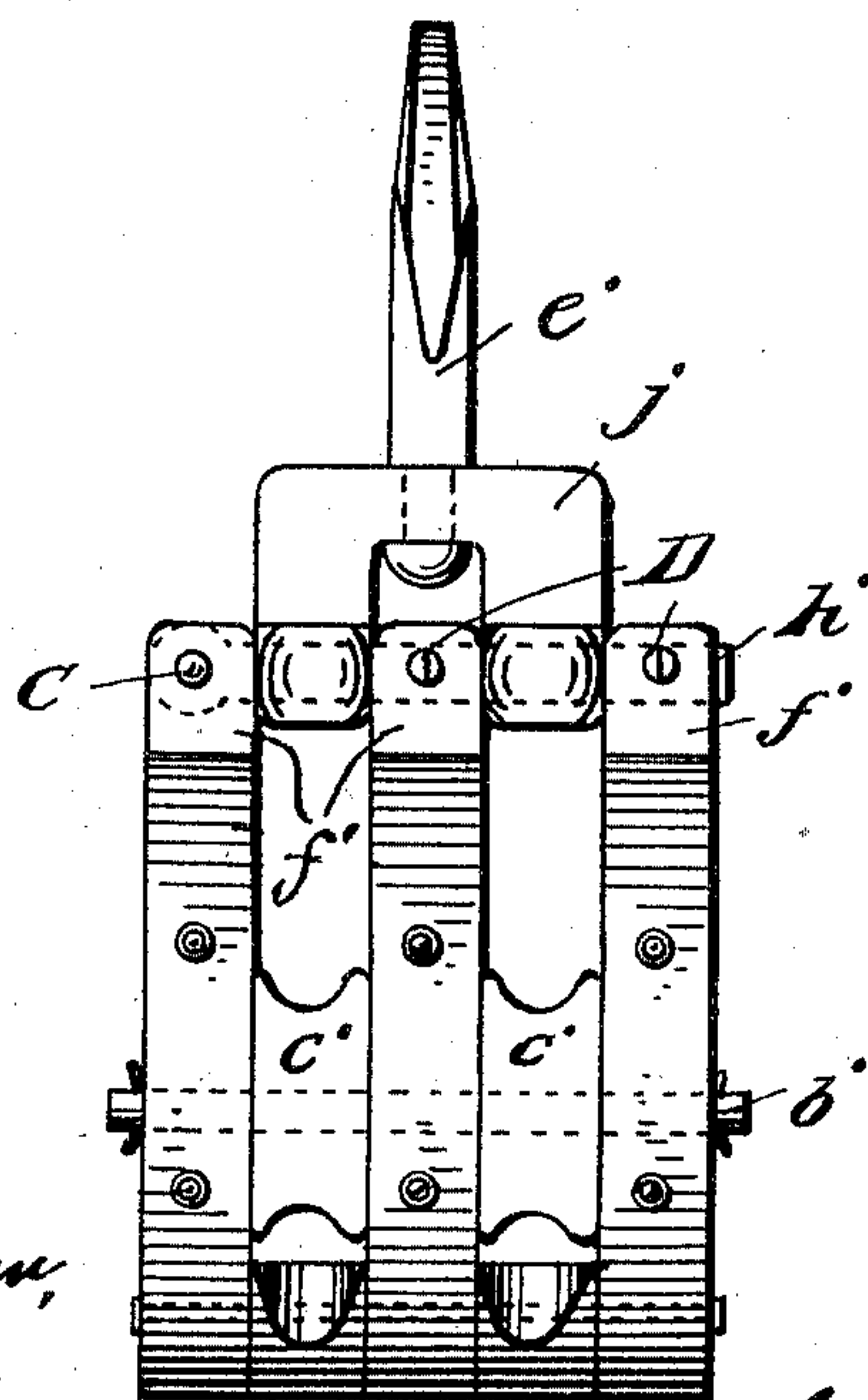


FIG. 3.



Witnesses:  
*J. D. Hefleman,*  
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Inventor  
*J. E. Sjoberg*  
*by Frank Appelman*  
*att'y*

## UNITED STATES PATENT OFFICE.

JOHN E. SJOBERG, OF PITTSBURG, PENNSYLVANIA.

## SNATCH-BLOCK.

SPECIFICATION forming part of Letters Patent No. 776,558, dated December 6, 1904.

Application filed January 27, 1904. Serial No. 190,794. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN E. SJOBERG, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Snatch-Blocks, of which the following is a specification.

This invention relates to hoisting-machinery, and particularly to a class thereunder known as "snatch-blocks."

An object of this invention is to provide a detachable hook and block for permitting the ready insertion of the rope or other flexible connection to the pulley of the block.

Furthermore, an object of the invention is to provide a block of this character in which the pull or strain on the flexible connections is in direct line with the hook, which is attached to the block, thus insuring the true running of the flexible connection of the pulley and obviating any such movement of the said flexible connection which might result in its binding against either side of the block.

Furthermore, an object of the invention is to provide a block of the character in which the said block is balanced on the hook in a manner to cause the said block to hang perfectly true with relation to the said hook.

Furthermore, an object of the invention is to provide a hook and block and means for readily engaging or disengaging the hook-supporting means and the block through the medium of a cotter-pin which has sufficient spring action to prevent accidental disengagement of the said cotter-pin with the interlocking parts of the hook and block.

Finally, an object of the invention is to produce a snatch-block of the character noted which will possess advantages in points of simplicity, efficiency, and durability, proving at the same time comparatively inexpensive to manufacture.

With the foregoing and other objects in view the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully set forth and specifically claimed.

In describing the invention in detail reference will be had to the accompanying draw-

ings, forming part of this specification, wherein like characters denote corresponding parts throughout the several views, in which—

Figure 1 is a side view in elevation showing a block and hook embodying the invention. Fig. 2 illustrates an elevation of the edge of the block and in dotted lines showing the hook thrown over to permit the application of the flexible connection to the pulley. Fig. 3 is a view similar to Fig. 2 except that a double block is illustrated.

In the drawings, *a* denotes the body of the block, having a shaft *b*, on which the pulley *c* is mounted.

The sides of the block *a* are provided with reinforcing-bolts *d*, extending from one edge to the other and secured in any suitable manner.

The attachment for the hook *e* comprises metallic straps *f*, bent on themselves to form eyes *g*, which receive the shaft *b*, the body portion of the sections of the straps lying parallel and having their ends diverging somewhat for the reception of the cross-bar *h*, through which the hook *e* is swiveled. The cross-bar *h* is pivoted, by means of the pin *A*, between the ends of the straps on one side of the block and is secured at the other end between the ends of the strap through the medium of a cotter-pin *B*, which cotter-pin may be removed and inserted at the will of the operator. The block is provided with slots *a'*, in which the straps are seated. The edges of the block below the pulley are cut away, as at *i*, for the purpose of permitting the flexible connection to run over the said pulley without contacting with the block at this point.

In Fig. 3 approximately the same construction is illustrated as that shown in Figs. 1 and 2, with the exception that the straps *f'* are multiplied and the bar *h'* is pivoted at the point *C* and has cotter-pins *D* at two points extending through the said bar *h'* for the purpose of connecting the said bar to the said straps *f'*. In this last-mentioned construction a yoke *j* has its ends anchored in the cross-bar *h'*, and the hook *e'* is swiveled in the yoke *j*. The shaft *b'* and the pulleys *c'* in this construction are the same as that shown in Figs. 1 and 2, except that in this form the shaft *b* is slightly longer than in the other de-



vice. Two pulleys *c'* are used in this form, and the flexible connections, (not shown,) which run over these pulleys, will act in a direct line with the attachment of the yoke *i* of the bar *h'*, thus preventing any sidewise hang of said block.

The construction, operation, and advantages will, it is thought, be understood from the foregoing description, it being noted that various changes may be resorted to in the proportions and details of construction for successfully carrying the invention into practice without departing from its scope.

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

1. In a block of the character described, a body, a shaft adapted to support pulleys, straps having loops embracing the shaft, the free ends of said straps extending above the

body of the block, a bar secured between the ends of the straps and a hook connected to the bar.

2. In a block of the character described, a body, a shaft therein, a pulley mounted on the shaft, straps doubled on themselves and having the looped portion embracing the shaft, the free ends of said straps extending above the body of the block and being separated, a bar pivoted between the ends of one strap, means for connecting the bar to the ends of the opposite strap and a hook for supporting the bar.

In testimony whereof I affix my signature, in the presence of two witnesses, this 20th day of January, 1904.

JOHN E. SJOBERG.

Witnesses:

ROBERT PETERSON,  
PONTUS. E. CARLSON.