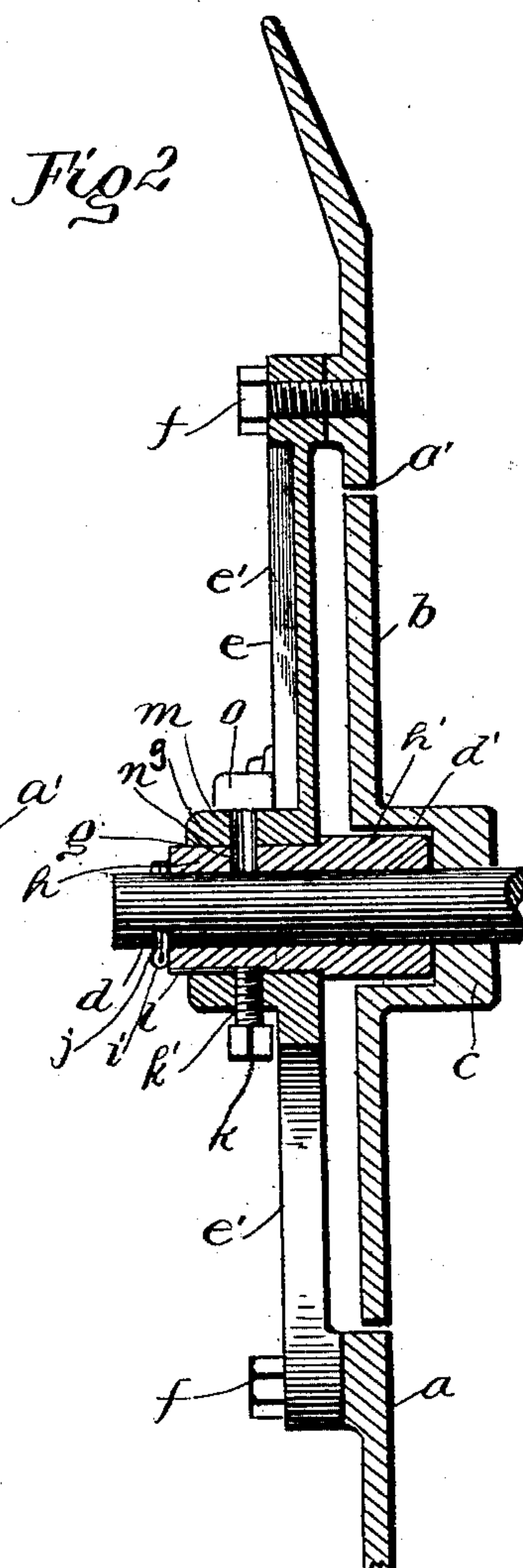
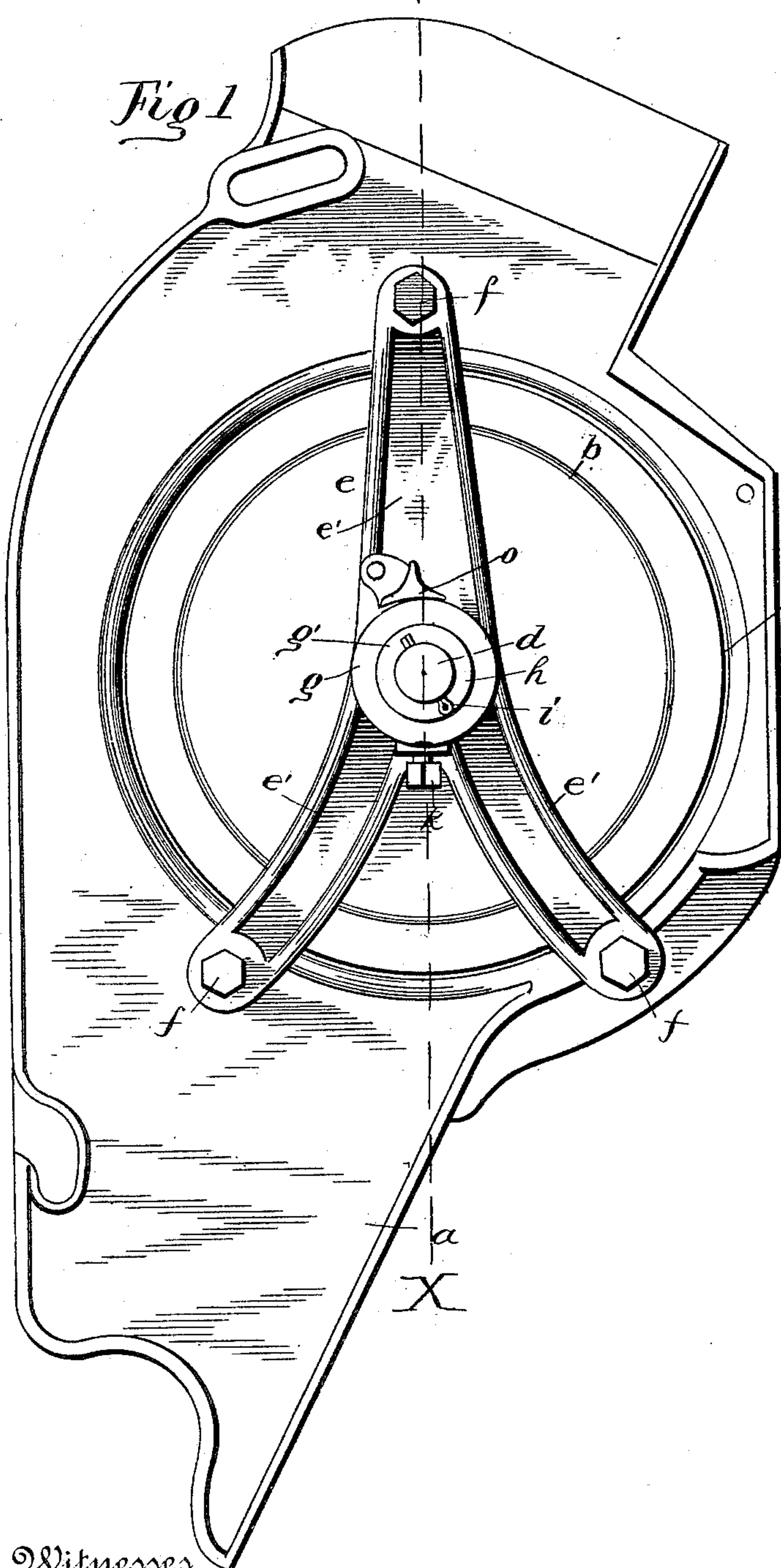


(No Model.)

I. F. BROWN.  
COTTON GIN ATTACHMENT.

No. 462,890.

Patented Nov. 10, 1891.



Witnesses

C. C. Burdine.  
Geo. L. Wheelock.

Inventor

Israel F. Brown,  
per Reynolds  
his Attorney



# UNITED STATES PATENT OFFICE.

ISRAEL F. BROWN, OF NEW LONDON, CONNECTICUT.

## COTTON-GIN ATTACHMENT.

**SPECIFICATION** forming part of Letters Patent No. 462,890, dated November 10, 1891.

Application filed April 30, 1891. Serial No. 391,096. (No model.)

*To all whom it may concern:*

Be it known that I, ISRAEL F. BROWN, a citizen of the United States, residing at New London, in the county of New London and State of Connecticut, have invented certain new and useful Improvements in Cotton-Gin Attachments; and I do hereby 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.

My invention relates to an improvement in cotton-gins, and particularly to the manner of mounting the revolving heads in the sides of the cotton-box. Heretofore it has been my customary practice to supply the ends of the cotton-box with revolving heads, the object being to prevent the friction caused by the cotton coming in contact with the ends of the box, which was found to break the roll. These revolving heads were attached to the ends of the cotton-box by means of journals having bearings in boxes cast at the ends of the cotton-box. The described construction is that of the well-known Pratt gin, and hence is not my invention.

The object of my invention is to facilitate repairs at slight expense should any parts become broken or worn without having to supply an entirely new end to the cotton-box.

To this end my invention consists of certain features of novelty to be hereinafter described, and then particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a face view of one of the ends of a cotton-box provided with my improvement, and Fig. 2 is a vertical section on line X X, Fig. 1, thereof.

*a* indicates one of the end plates of a cotton-box, and *b* a revolving circular head that is adapted to turn within a circular opening *a'*.

*c* is an axial boss on the inner side of the revolving head, and *d* an axial shaft on the outer side of the latter, surrounded by an annular recess *d'*, extending into the boss.

A Y-shaped support *e*, having three arms *e'*, is removably secured to the outer face of the end plate *a* at the sides of the opening *a'* by means of set-screws *f*, which screw into the outer ends of the arms *e'* and into the plate *a*. At about the point where the arms *e'* branch out the outer side of the V-shaped support is provided with a boss *g*, having a longitudinal bore *g'* opposite the center of the circular opening *a'*.

*h* is a bushing having a slight enlargement *h'* at its inner end, the smaller part of which fits snugly within the bore *g'* of the boss *g*, and the enlargement *h'* of which fits within the annular recess *d'* in the revolving head *b*, so that the shaft *d* of the latter may turn or journal within it. The shaft is secured in its place by means of a cotter-pin *i*, which passes through a perforation *j* in its end. The bushing is fixed in position by means of a set-screw *k*, passing through a screw-threaded opening *k'* in the boss *g* and engaging in a groove or recess *l*, extending longitudinally of the bushing. Opposite holes *m* and *n* are made in the boss *g* and bushing *h*, through which lubricant is applied to the shaft *d*. A pivoted cover *o* is arranged above the lubricating-holes, so that they may be closed.

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

The combination, with the end plate of a cotton-gin having a circular opening, a revolving head within the opening, and an axial shaft on which the head revolves surrounded by an annular recess in the head, of a removable support fitted to the end plate and provided with a hollow boss and a bushing in the boss, the inner end of which is received by said recess, substantially as and for the purpose set forth.

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

ISRAEL F. BROWN.

Witnesses:

A. S. BENHAM,  
G. T. BROWN.