

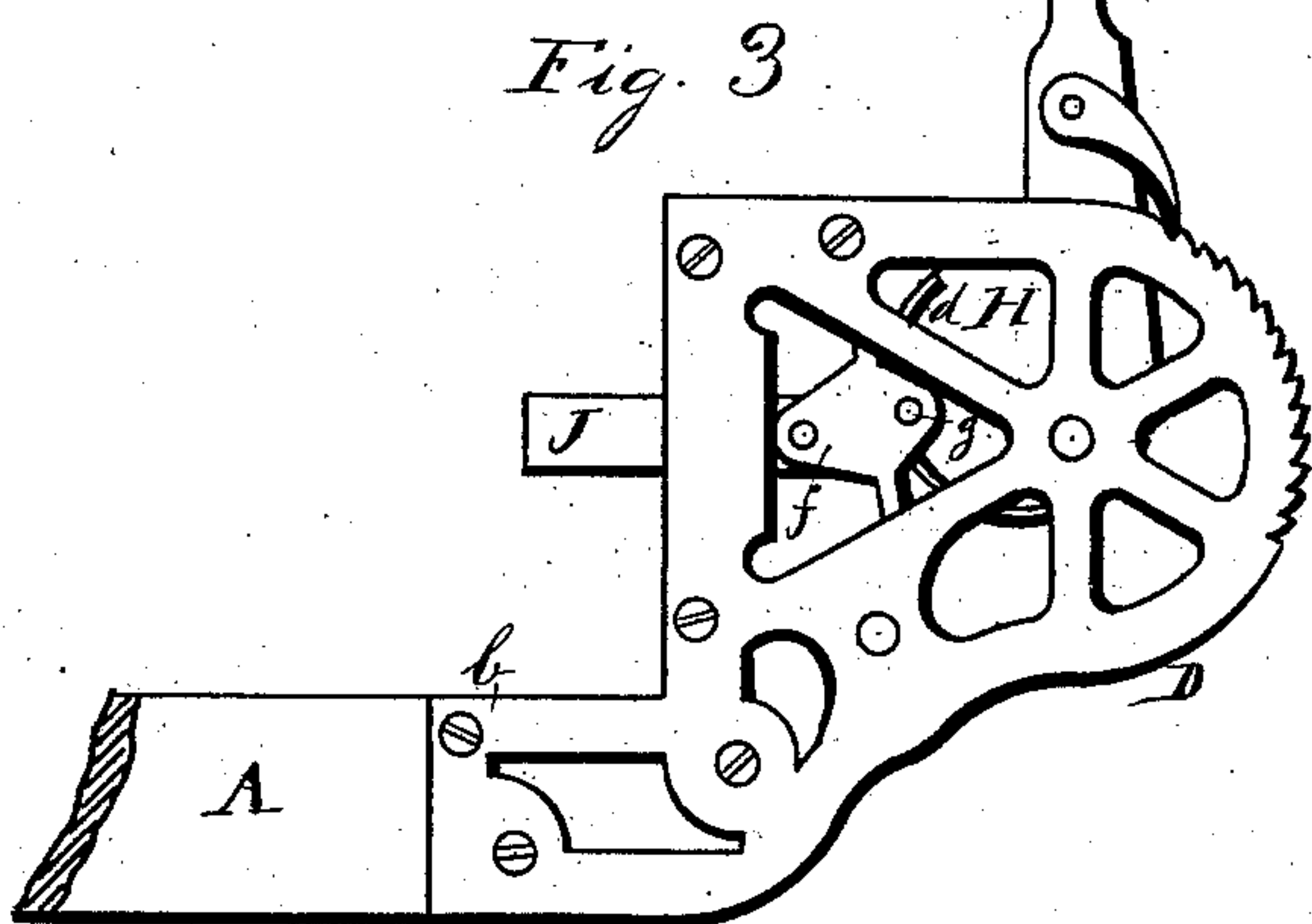
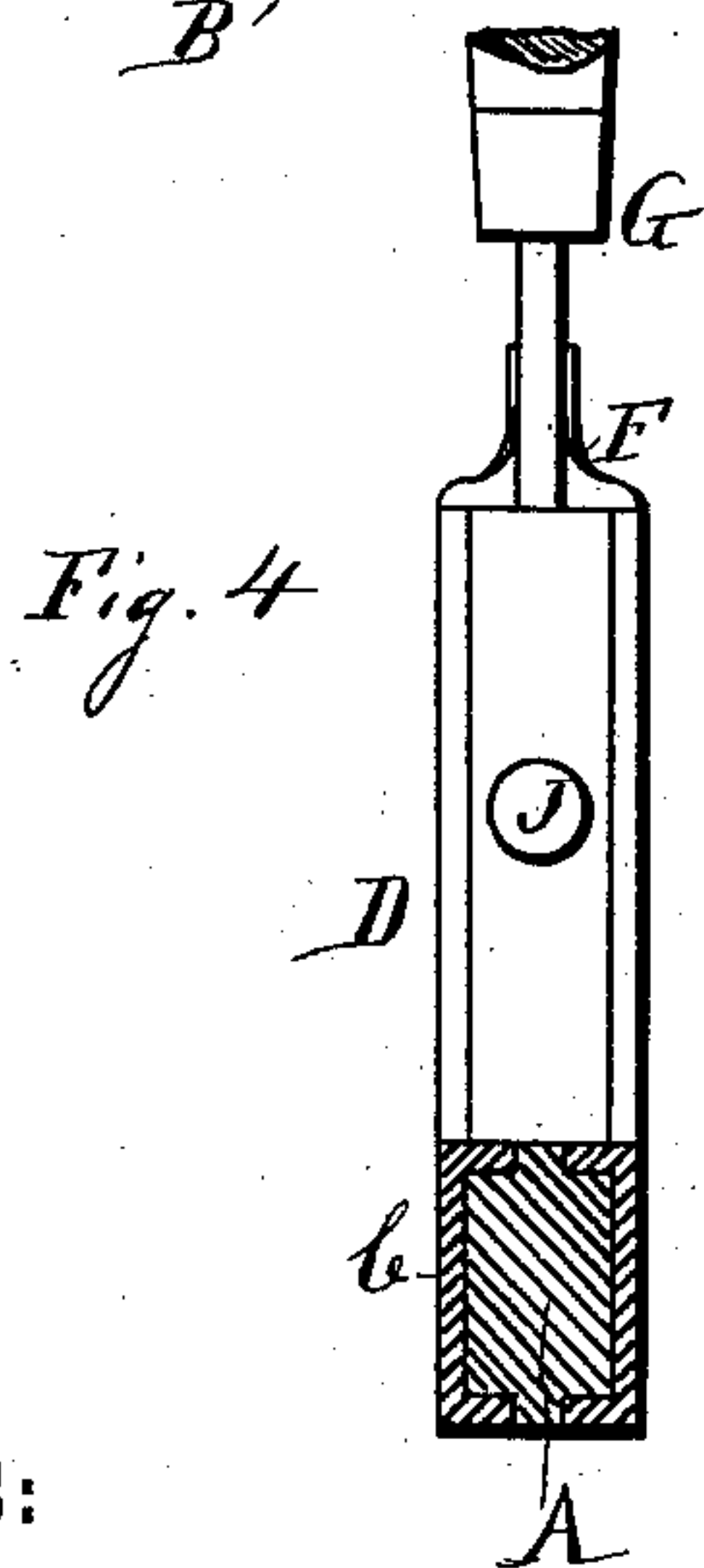
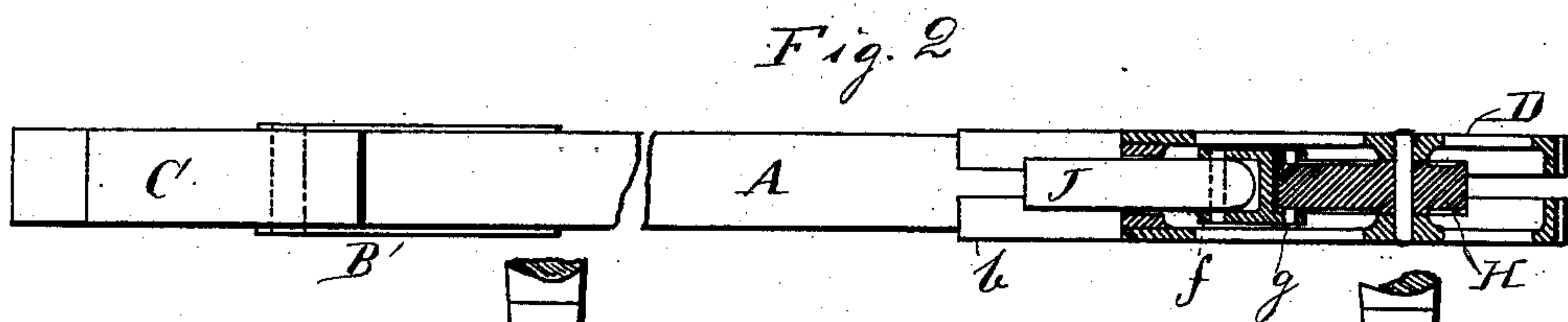
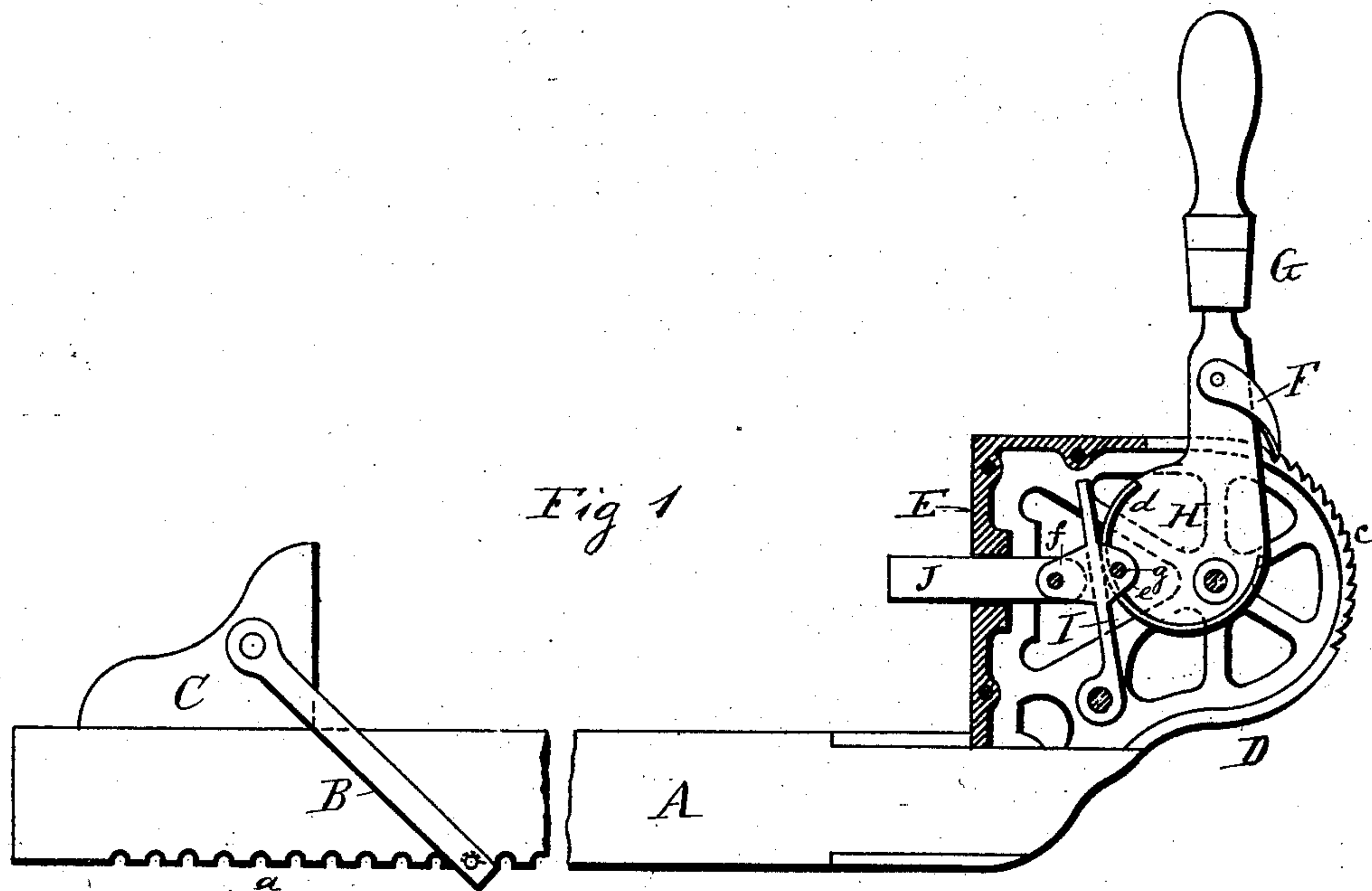
(No Model.)

F. RESTORFF.

# JOINER'S CLAMP.

No. 298,027.

Patented May 6, 1884.



WITNESSES:

M. J. Cageto.  
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INVENTOR

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# UNITED STATES PATENT OFFICE.

FRITZ RESTORFF, OF CHICAGO, ILLINOIS.

## JOINER'S CLAMP.

SPECIFICATION forming part of Letters Patent No. 298,027, dated May 6, 1884.

Application filed September 29, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, FRITZ RESTORFF, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Joiner's Clamps, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in joiners' clamps.

The object of the invention is to obtain a device of the character described which will be simple, cheap, and effective; and to that end the invention consists of certain novel devices and combination of devices, as will be described and claimed.

Reference will be made to the accompanying drawings, in which Figure 1 is a sectional elevation; Fig. 2, a horizontal section through center; Fig. 3, an elevation of parts, and Fig. 4 a face view.

Like letters refer to like parts in each view.

A represents a strip of wood, against which the parts to be clamped are laid. This strip may be of any desired length, and is provided upon one face, as shown, with a series of notches, *a*, with which a loop, B, engages, said loop encircling the strip and being secured to an adjustable block, C. At one end the strip A is notched to receive the flanged projections *b* of two plates, D, as shown clearly in Figs. 3 and 4, suitable screws being passed through said projections to secure the plates D to the strip. The plates D, together with an angular piece, E, which is secured between said plates at their front edge, form a frame, in which certain operative parts, to be hereinafter referred to, are situated. The rear or outer edges of plates D are notched, as at *c*, and with such notches a pawl, F, engages, said pawl being pivotally secured to a lever, G. This lever is pivoted between plates D, and is formed with a cam-head, H, said cam being provided upon its outer edge with a flange, *d*, one on each side. A rocker-arm, I, is pivoted between plates D, and is so situated that its free end is brought to a position to be acted upon by the cam-head of lever G when said lever is operated. At suitable points on rocker-arm I are formed ears or lugs *e* and *f*, those marked *e* extending toward cam H, and those *f* toward the front face of the frame. Lugs *e* are formed

each with an inwardly-projecting pin, *g*, said pins overlapping the flanges of cam H, so that upon the revolution of said cam the rocker-bar will be operated. Between the ears *f* of rocker-bar I is secured a pusher-bar, J, which is moved with said rocker-bar, and which extends out through an opening made through front piece, E. The operation will be readily understood. The pieces to be clamped are placed against strip A, between block C and the front piece, E, said block being then adjusted to clamp the parts as tightly as is practicable. It then being desired to clamp them more closely, the handle of lever G is turned, and through the medium of cam H and rocker-bar I the pusher-bar J is forced out and the pieces held firmly together, the pawl F of lever G at the same time engaging with the notches of plates D and serving to hold the parts together. When it is desired to release the parts, the pawl is disengaged, the lever turned to its normal position, and the pusher-bar J thus withdrawn.

In place of the rocker-bar I described, a block moving in guides formed in the plates D, and connected with the cam-head and pusher-bar, as is the rocker-bar, may be used; or, further, said pusher-bar may be formed with said moving block.

What I claim is—

1. In a joiner's clamp, the combination, with notched strip A and block C, adjustably mounted thereon, of lever G, provided with flanged cam-head H, rocker-bar I, connected to said cam-head by inwardly-projecting pins, and pusher-bar J, secured to said rocker-bar, said lever, rocker-bar, and pusher-bar mounted between plates D, secured to the end of strip A, as and for the purpose set forth.

2. In a joiner's clamp, the lever G, provided with flanged cam-head H, carrying pawl F, and mounted between notched plates D, in combination with rocker-bar I, connected with said lever by inwardly-projecting pins, pusher-bar J, secured to said rocker-bar, and block C, said block adjustably mounted on notched strip A, to the end of which plates D are secured, as set forth.

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

Witnesses: FRITZ RESTORFF.  
M. J. CLAGETT,  
LOUIS NOLTING.