

(No Model.)

G. C. BOVEY.

GATE HINGE.

No. 354,383.

Patented Dec. 14, 1886.

FIG. 1.

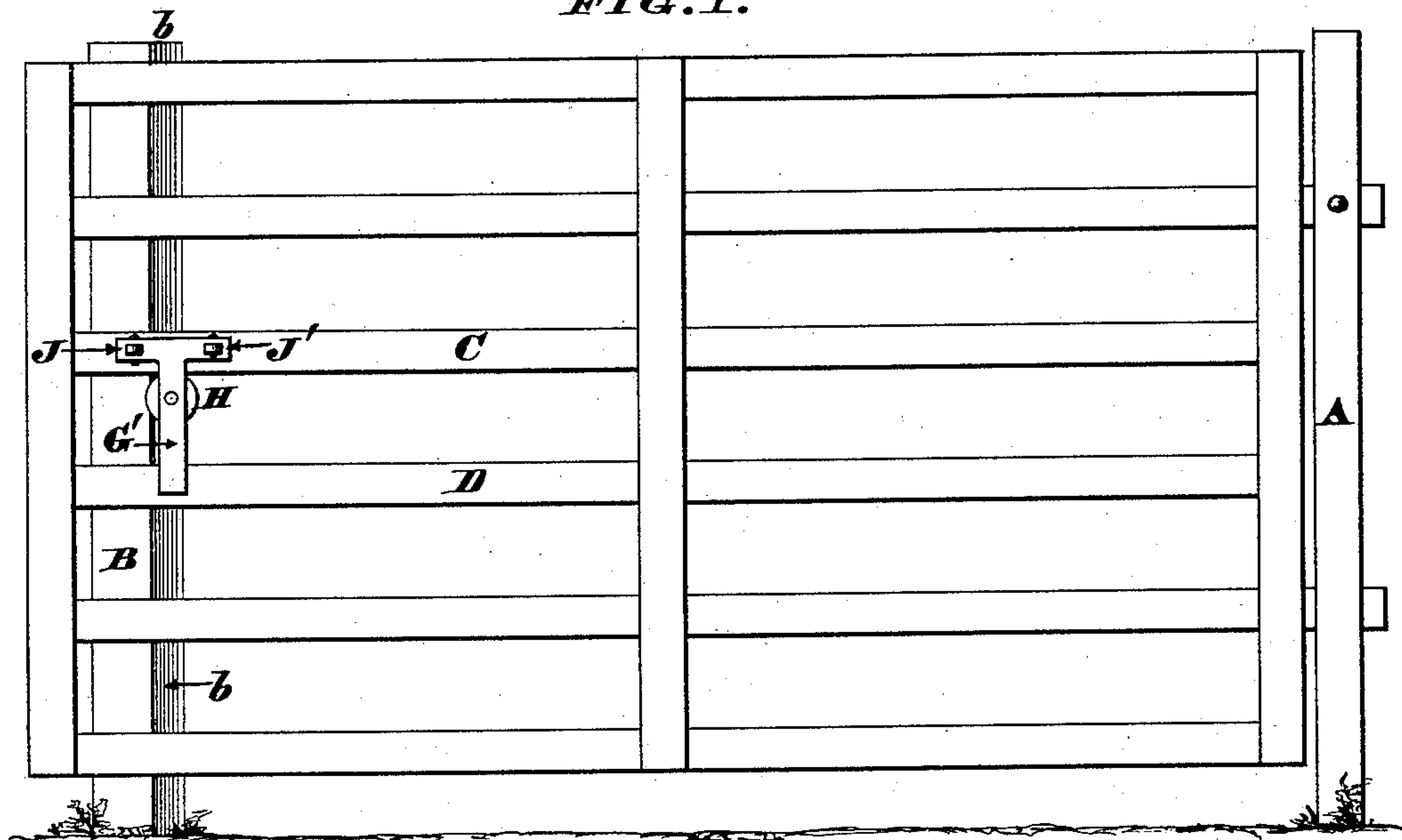


FIG. 2.

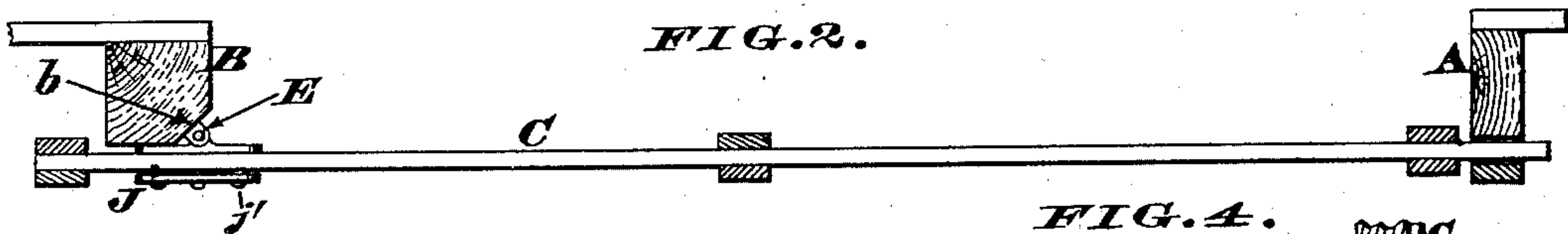


FIG. 3.

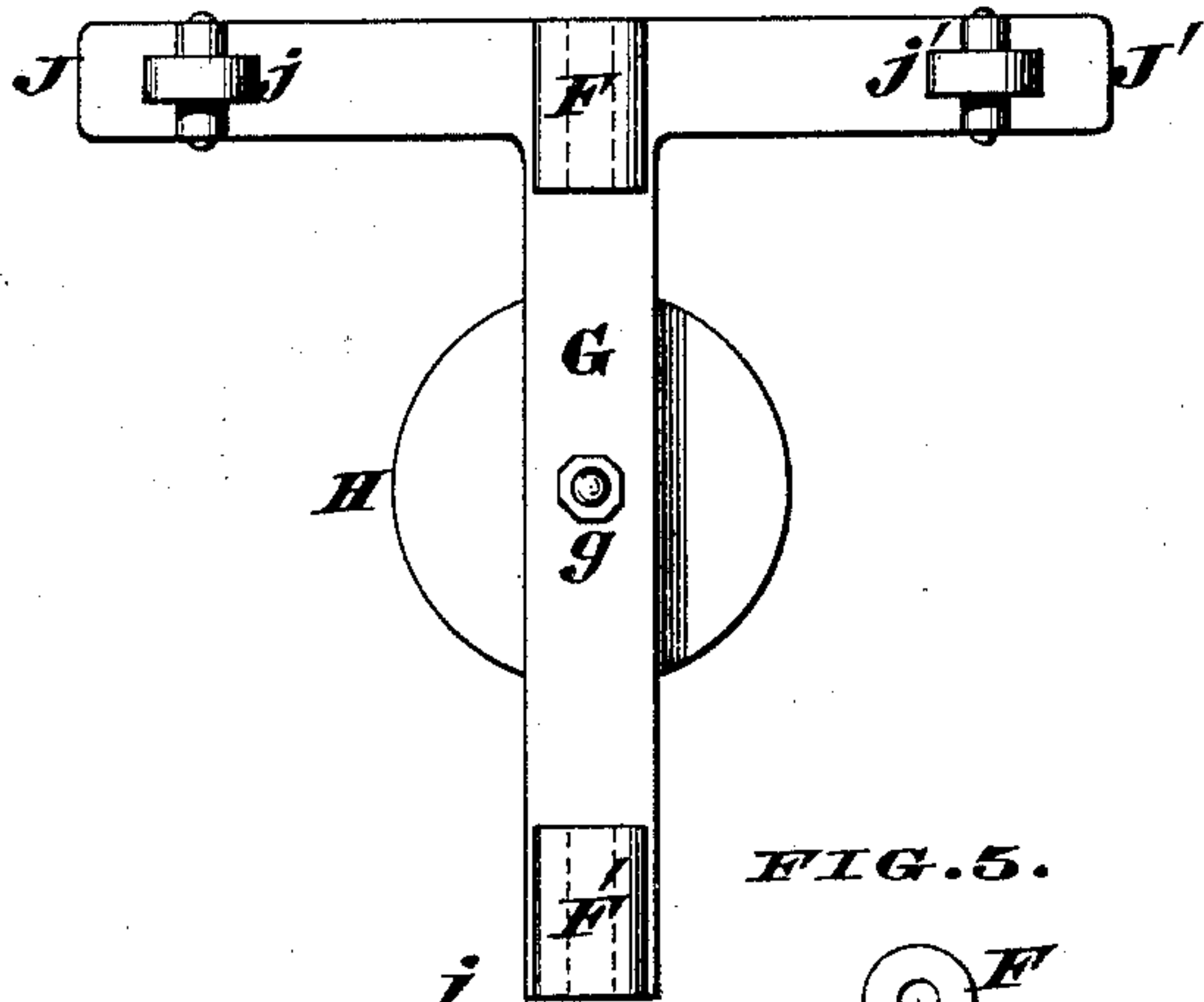


FIG. 5.

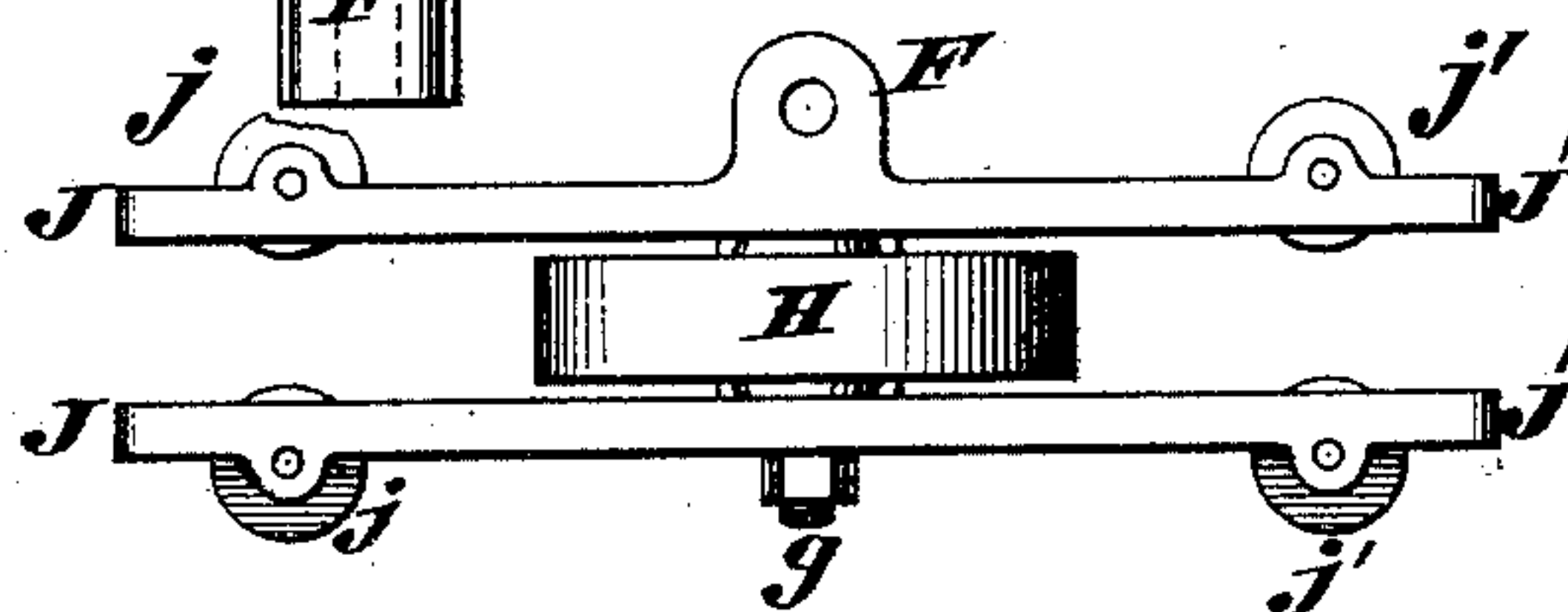
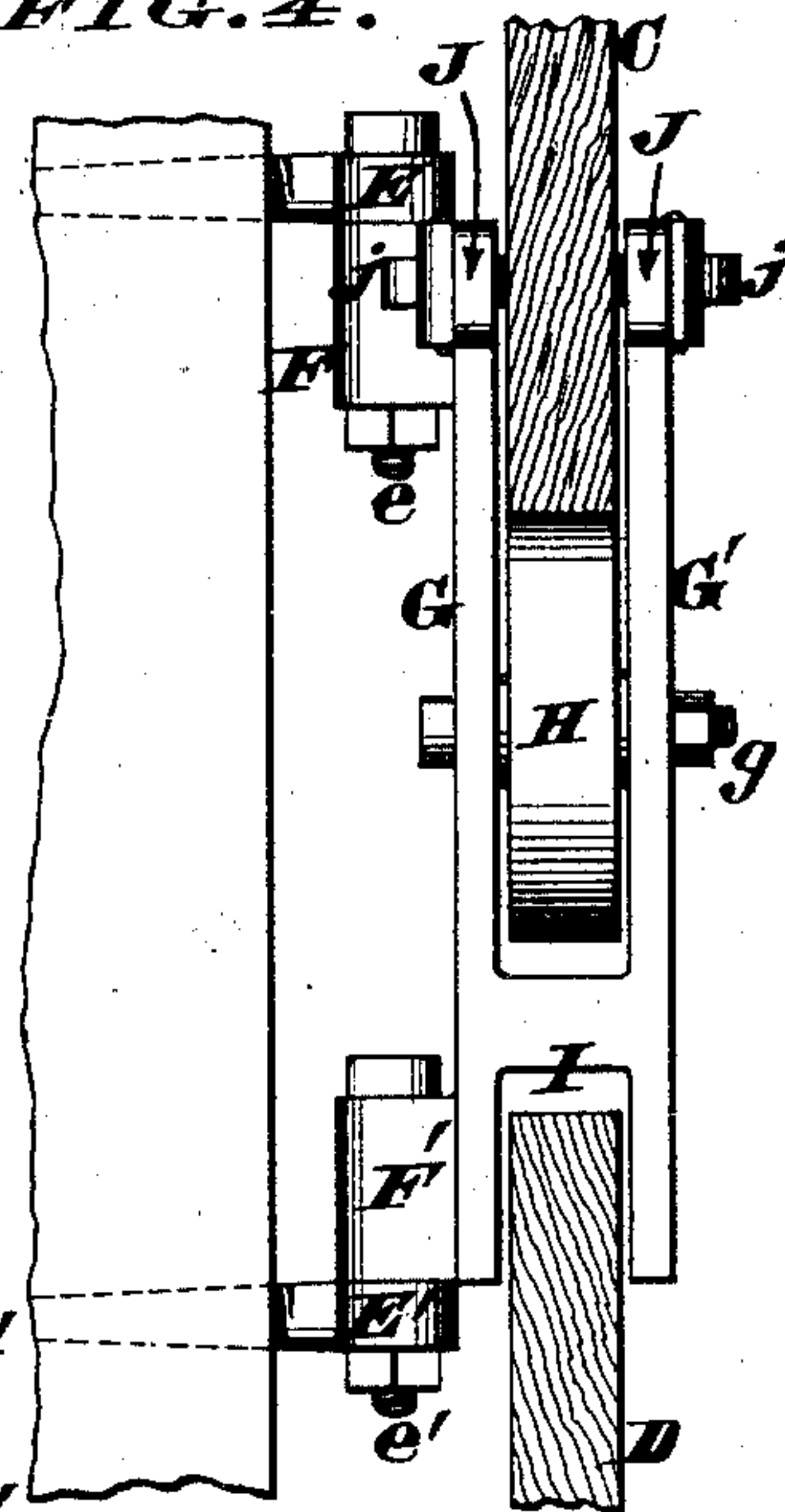


FIG. 4.



Attest.  
S. S. Carpenter  
J. H. Mueller

Inventor.  
George C. Bovey  
by James H. Layman  
Att'y.

# UNITED STATES PATENT OFFICE.

GEORGE C. BOVEY, OF COLUMBUS, OHIO.

## GATE-HINGE.

SPECIFICATION forming part of Letters Patent No. 354,383, dated December 14, 1886.

Application filed July 15, 1886. Serial No. 208,046. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE C. BOVEY, a citizen of the United States, residing at Columbus, in the county of Franklin, State of Ohio, have  
5 invented certain new and useful Improvements in Gate-Hinges, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is to provide a  
10 special hinge for the support of those slatted gates which slide longitudinally and then swing around so as to be opened at a right angle to their closed position. I accordingly provide two ordinary posts, to one of which  
15 the slatted gate is locked, while the other post is furnished with eyebolts that receive pivots wherewith perforated ears are coupled to said bolts, which ears project from the inner one of  
20 a pair of cheek-plates. These cheek-plates are duplicates of each other, and have at bottom a fork that admits the upper edge of one slat, while the lower edge of the slat immediately above rides on a vertical wheel jour-  
25 naled between said plates. Furthermore, each cheek-plate is furnished with a pair of horizontal arms, and each arm has journaled in it a small roller, two of which bear against the outer side of the slat that runs on the vertical  
30 wheel, while the other two rollers bear against the inner side of said slat, as hereinafter more fully described.

In the annexed drawings, Figure 1 is a front elevation showing a gate supported upon my improved hinge, the gate being closed. Fig.  
35 2 is a horizontal section of the same. Fig. 3 is an enlarged rear elevation of the hinge. Fig. 4 is an end elevation showing the hinge attached to the gate-post. Fig. 5 is a plan of the hinge.

40 A represents the lock-post, B the hinge-post, and C D a pair of the slats or rails, of an ordinary sliding gate, one edge of the post B being chamfered off, as at *b*, to admit the proper insertion of eyebolts E E', (seen in  
45 Fig. 4,) said bolts being traversed by pivots *e e'*, that pass, also, through perforated ears F F' of the rear cheek-plate, G.

G' is the front cheek-plate, and *g* is a short bolt connecting the plates G G' and serving as a journal for the roller or vertical wheel H 50 that supports the slat C.

I is a fork at the lower end of these cheek-plates, which fork receives the upper edge of slat D. Each cheek-plate terminates with horizontal arms J J', having small rollers *j j'* jour- 55 naled in them and near their ends, which rollers bear against the outer and inner sides of the slat C, as seen in Fig. 4.

From this description it is evident that the gate, after being unlocked from the post A, 60 can be readily run back on the roller H, the upward extensions of cheek-plates G G' coacting with the fork I in keeping the gate in a vertical position. After the gate has been run back a sufficient distance, it can then be swung 65 around at a right angle to its previous position, to permit the passage of a wagon, this turning being effected by the hinge swinging on the pivots *e e'*.

I am aware of the gate-hinges seen in the 70 patents of G. F. Bissell, November 16, 1869, No. 96,771; G. W. Addis, July 22, 1879, No. 217,720, and O. A. Young, June 21, 1881, No. 243,339. Therefore my claim is not to be construed as an attempt to cover the peculiar 75 hinges seen in either of these references.

I claim as my invention—

In combination with posts A B and slatted gate C D, the within-described hinge, consisting of the cheek-plates G G', having a fork, I, 80 at bottom, a wheel, H, journaled between them and terminating at top with horizontal arms J J', carrying rollers *j j'*, that bear against the opposite sides of slat C, the inner cheek-plate, G, being provided with perforated ears 85 F F', to admit pivots *e e'*, wherewith said hinge is hung upon eyebolts E E', projecting from the post B, as set forth.

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

GEORGE C. BOVEY

Witnesses:

JAMES H. LAYMAN,  
SAML. S. CARPENTER.