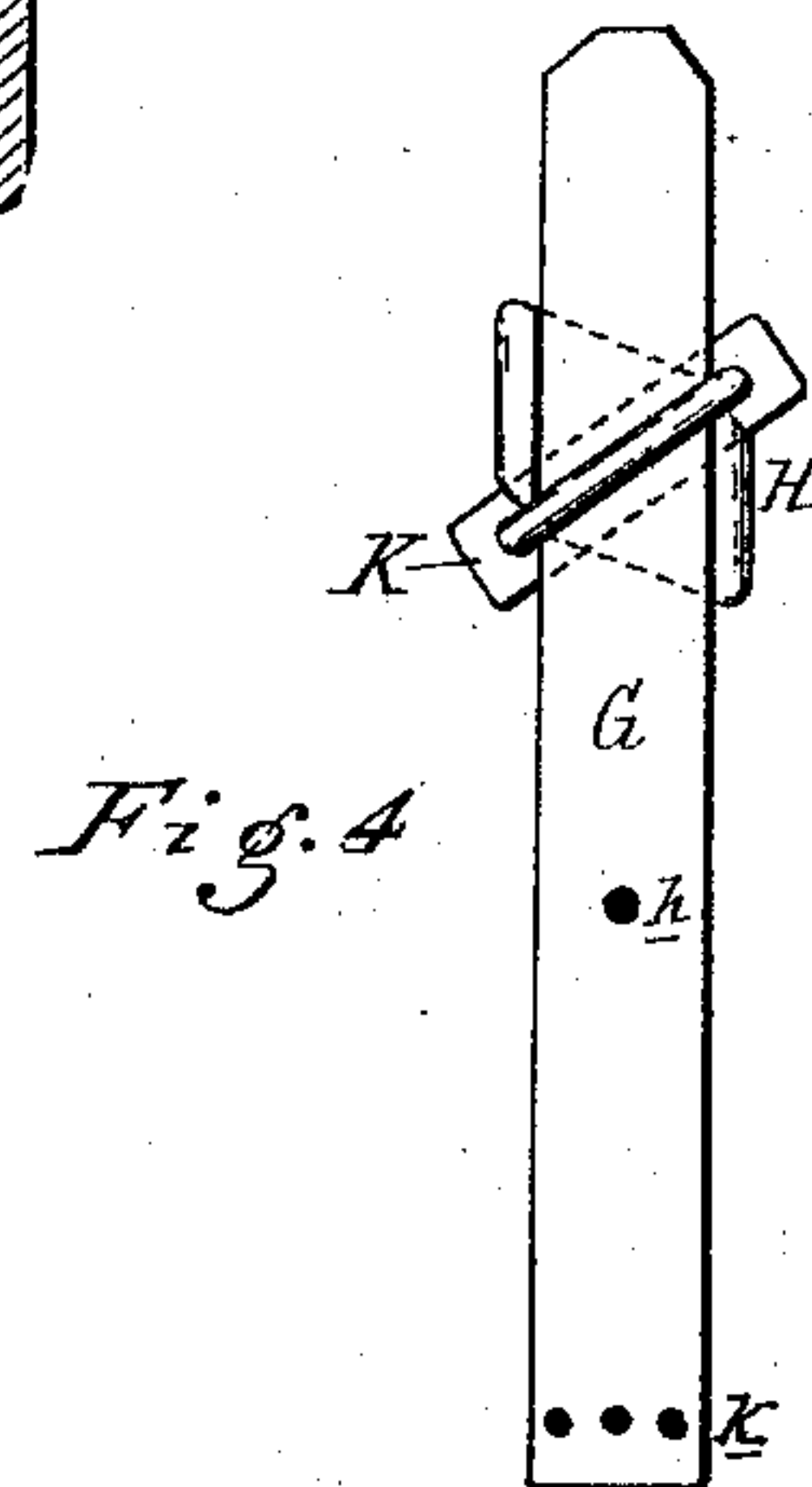
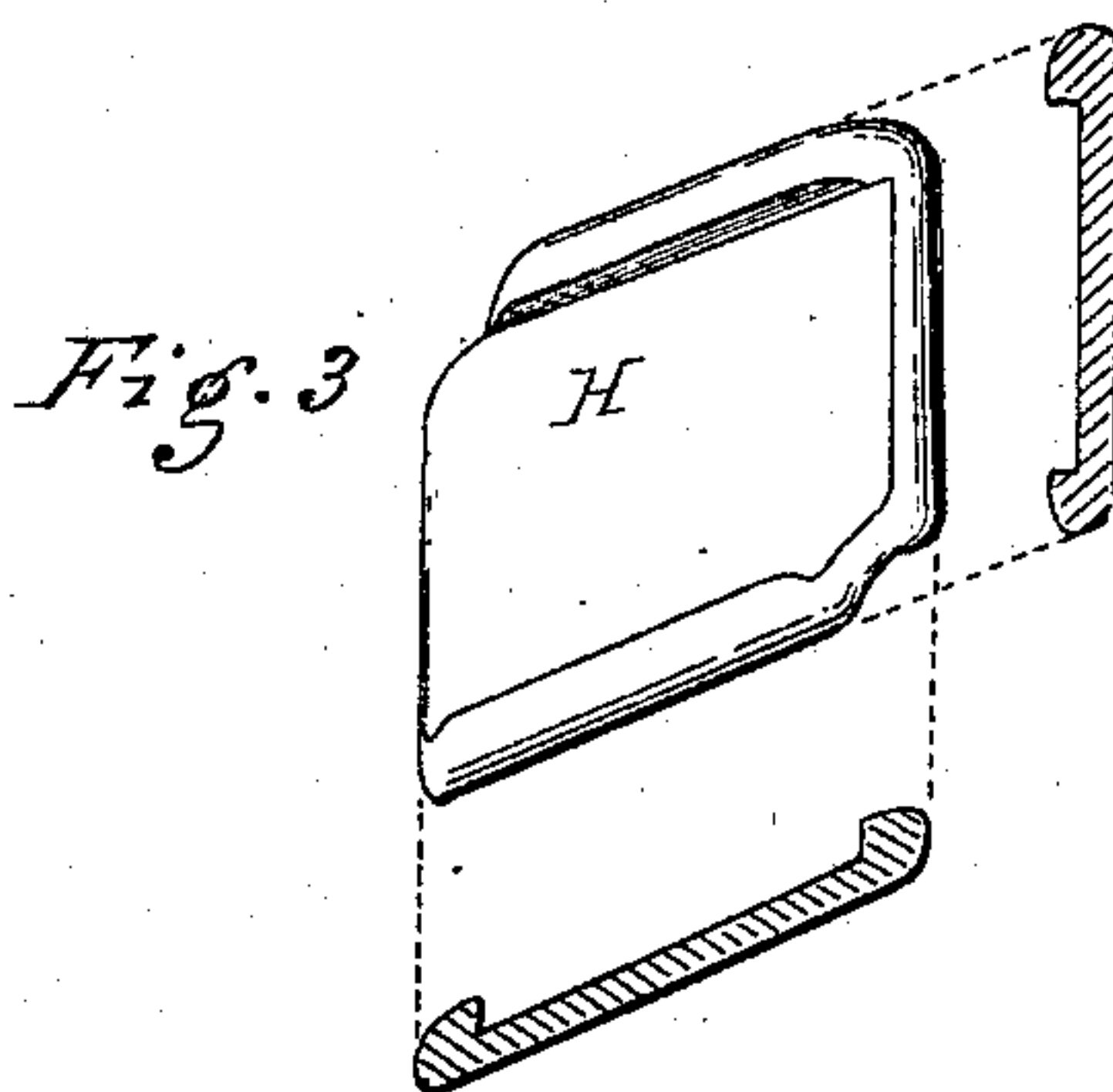
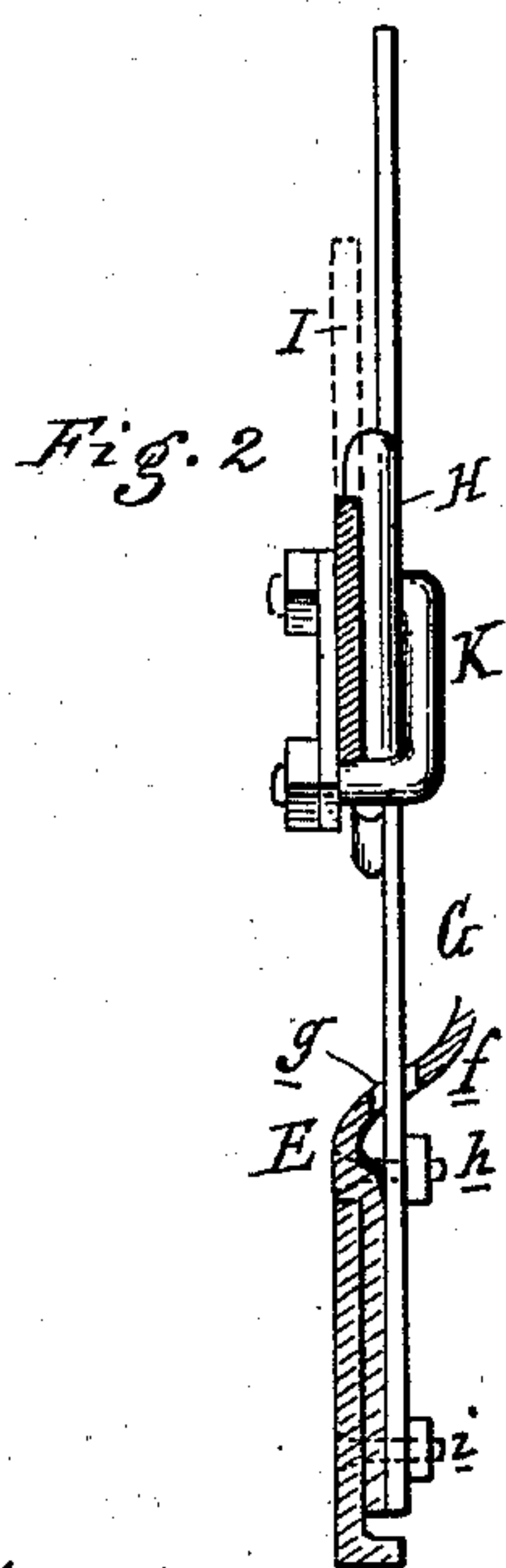
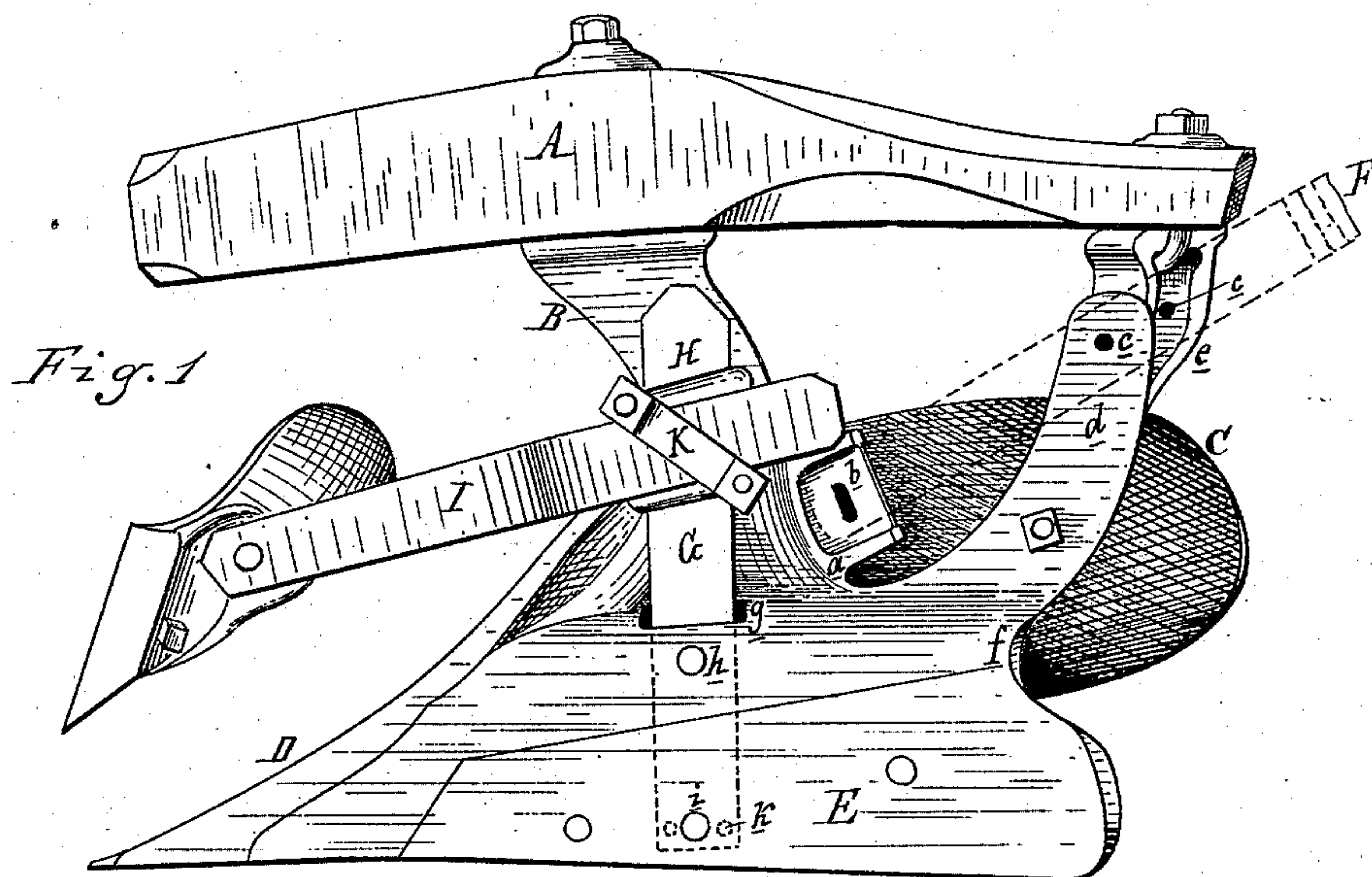


N. G. PINNEY.  
Plow.

No. 231,930.

**Patented Sept. 7, 1880.**



Attest:  
A. Barthel  
Pres. S. Day

Inventor:  
N. G. Pinney  
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Thos S. Sprague

# UNITED STATES PATENT OFFICE.

NORMAN G. PINNEY, OF NEW HUDSON, MICHIGAN.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 231,930, dated September 7, 1880.

Application filed February 2, 1880.

*To all whom it may concern:*

Be it known that I, NORMAN G. PINNEY, of New Hudson, in the county of Oakland and State of Michigan, have invented an Improvement in Plows, of which the following is a specification.

The nature of this invention relates to certain new and useful improvements in the construction of plows; and it consists in the construction and combination of novel devices for attaching and adjusting colter or jointer arms, and in the peculiar manner of securing a proper adjustment for the handles, and the combination of the various parts, substantially as more fully hereinafter described.

In the drawings, Figure 1 is a side elevation of my improved plow. Fig. 2 is a sectional rear elevation. Fig. 3 is a view of the clamp-plate. Fig. 4 is an inside elevation of the standard and clamp to which the colter or jointer arm is attached.

In the accompanying drawings, which form a part of this specification, A represents the beam, B the standard, C the mold-board, D the point, and E the landside, of a plow, all of the usual construction, except as hereinafter described.

The standard B is cast with a projection, *a*, in its rear edge, and through this projection is a slot, *b*, nearly vertical. To each side of this projection, and by means of a suitable bolt passing through the whole, the handles F are adjustably secured, said handles being pivoted at *c* to a continuation, *d*, and bracket *e* of the standard.

The standard is cast with an offset, *f*, through which there is a slot, *g*, and a standard, G, is vertically inserted therein, so that its lower end projects downward along the inner face of the landside portion of the plow, and is pivoted thereto by the bolt *h*, and the lower end of it is secured by the bolt *i* passing through one of a series of holes, *k*, in the extreme lower end of the standard. A plate, H, provided with vertical flanges upon its

inner face to embrace the vertical edges of the standard G, and also provided with lateral flanges on its front face, is employed, said latter-named flanges embracing the edges of the horizontal arm I, which carries a colter or jointer.

A clamp, K, with suitable bolts, secured diagonally around the standard G, plate H, and arm I, rigidly holds the parts together, and at the same time allows a vertical adjustability upon the standard G, by means of which the arm I may be raised or lowered as occasion may require. The pitch of the arm is regulated by the bolt *i* being transferred to one of the holes *k* in the bottom of the standard.

By this arrangement of parts it will readily be seen that the arm may be projected or retracted horizontally, adjusted vertically, and at the same time its pitch may be obtained at any desired angle to the line of draft.

What I claim as my invention is—

1. In combination with a plow, a supplementary vertical standard, G, the lower end of which is secured upon the inner face of the landside for the purpose of furnishing a means of securing a jointer or colter-arm, substantially as described.

2. In combination with a plow provided with a supplementary standard, as described, the plate H and clamp K, for the purpose of adjustably securing the arm I to said supplementary standard, substantially as specified.

3. In combination with a plow provided with a supplemental standard, G, a horizontally-projecting arm, I, and devices, substantially as described, for changing at will the pitch of the arm and to secure a vertical and horizontal adjustment of the same, substantially as set forth.

NORMAN G. PINNEY.

Witnesses:

THEO. S. DAY,  
H. S. SPRAGUE.