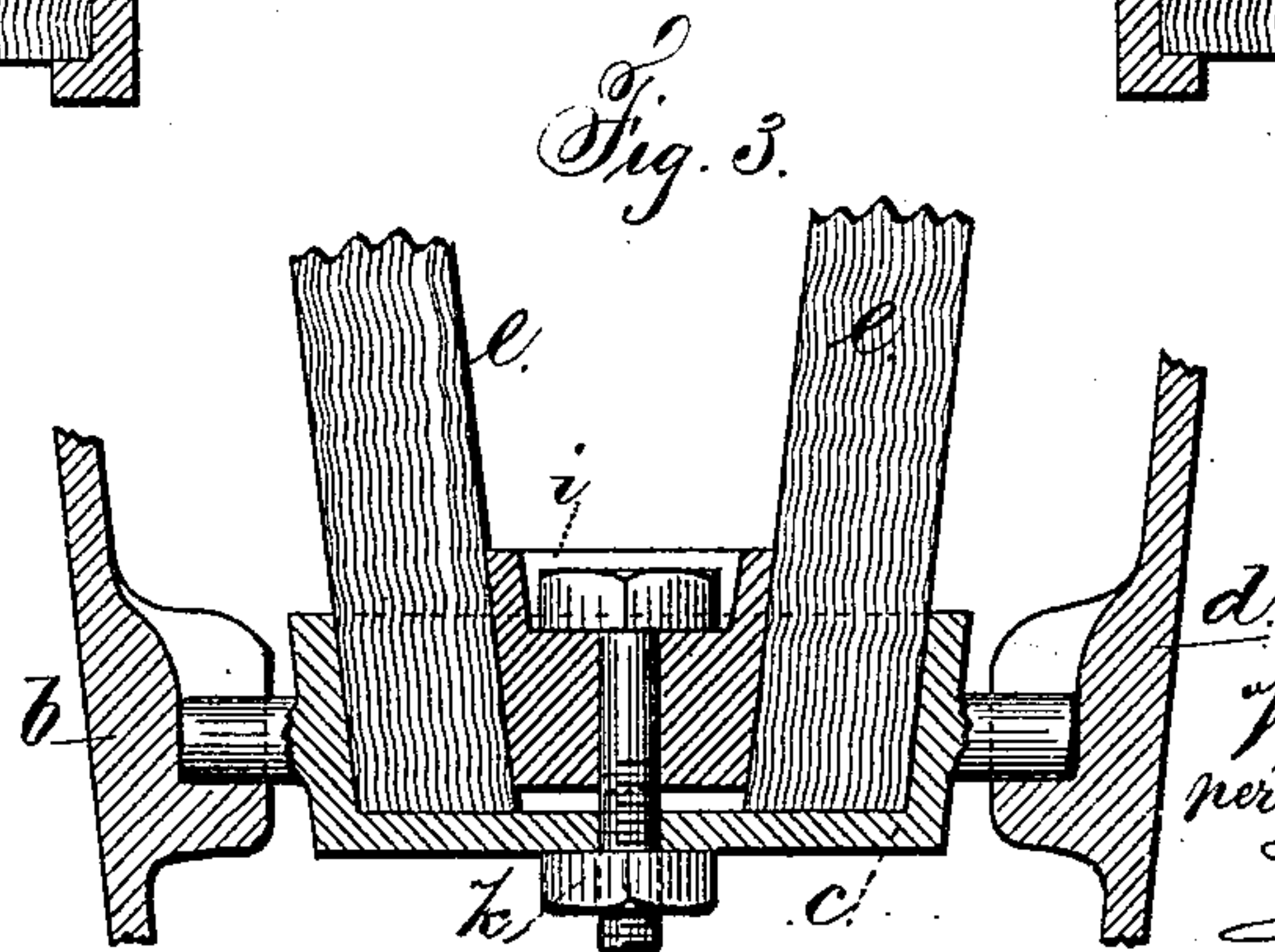
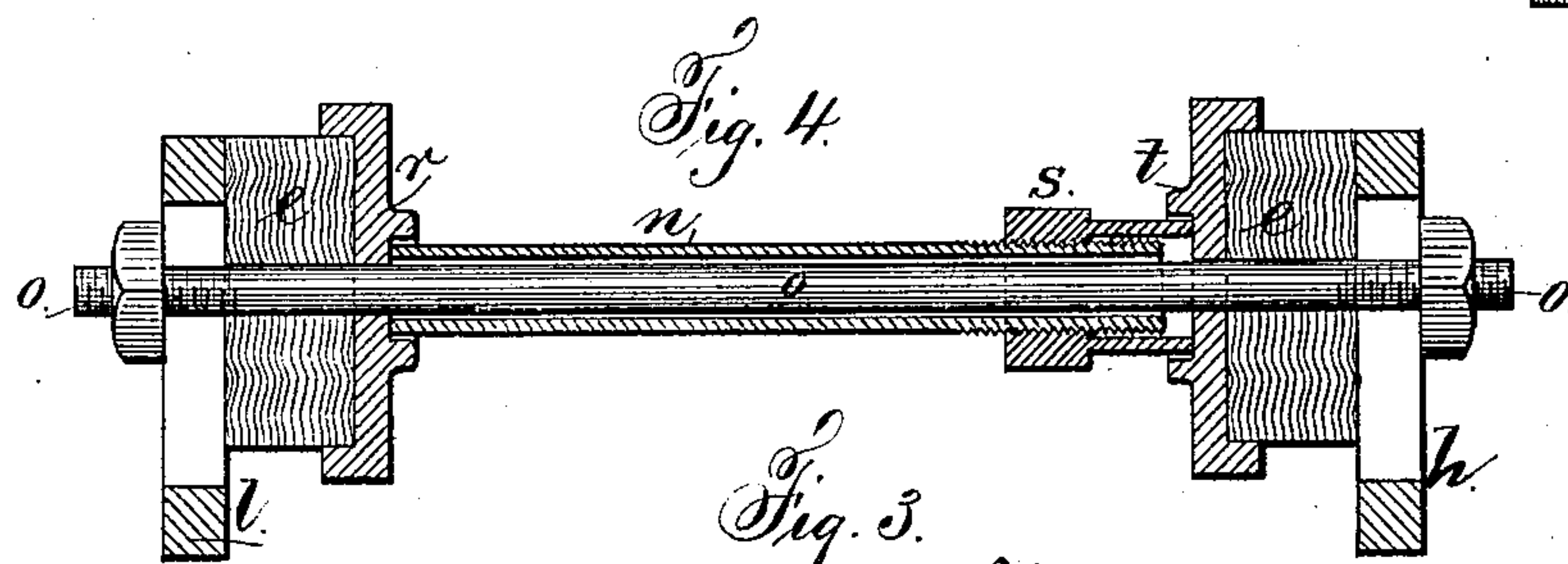
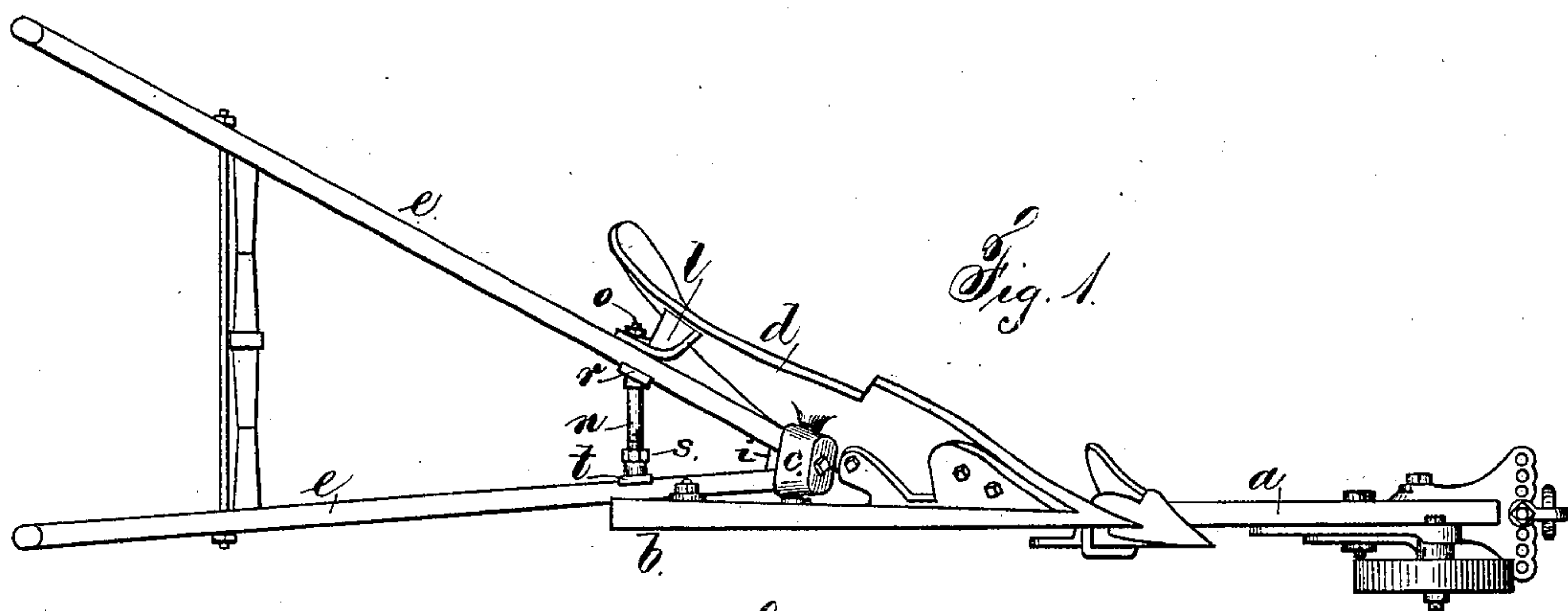
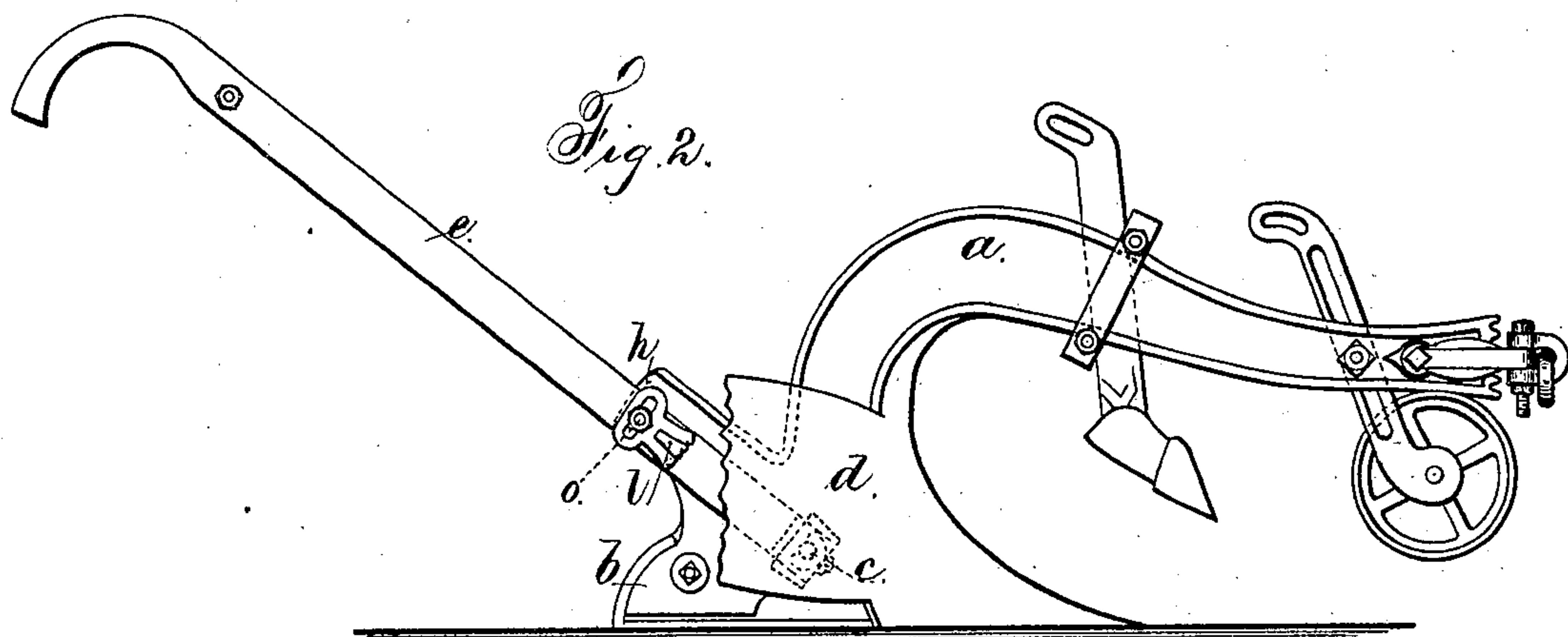


(No Model.)

W. A. MILES.  
ATTACHING PLOW HANDLES.

No. 267,443.

Patented Nov. 14, 1882.



Witnesses  
Harold Ferrell  
Chas. H. Smith

Inventor  
William A. Miles.  
per Lemuel W. Ferrell att.



# UNITED STATES PATENT OFFICE.

WILLIAM A. MILES, OF COPAKE IRON WORKS, NEW YORK.

## ATTACHING PLOW-HANDLES.

SPECIFICATION forming part of Letters Patent No. 267,443, dated November 14, 1882.

Application filed October 29, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM A. MILES, of Copake Iron Works, in the county of Columbia and State of New York, have invented an  
5 Improvement in Attaching Plow-Handles, of which the following is a specification.

Plows have been made with a spreader between the mold-board and landside, to which spreader the lower ends of the handles have  
10 been bolted, and there has been a bolt across through the handles to connect the same with the upper parts of the mold-board and landside or beam.

My invention is made for securing the handles more firmly at the spreader, and for allowing the handles to be raised or lowered with great facility, and for more firmly clamping the handles and holding them at their upper connection to the mold-board and beam.

20 In the drawings, Figure 1 is an inverted plan of the plow. Fig. 2 is an elevation, with the mold-board partially in section. Fig. 3 is a detached sectional view, in larger size, of the rocker-socket; and Fig. 4 is a section of the cross-bolt, sleeve, and nut.

25 The plow-beam *a*, landside *b*, and mold-board *d* are of usual character, and the beam may be of wood or iron. I have, however, shown it of a shape adapted to be of iron. There may be shares or colters on the beam.  
30 The handles *e* are of wood, of the ordinary size or shape. At their lower ends these handles *e* are thrust into a metal socket, *c*, which has at its ends lugs that pass into recesses made in projections upon the inner surfaces  
35 of the mold-board and base of the beam, respectively. This socket *c* forms a spreader to keep the mold-board at the proper distance from the base of the beam and the landside of the plow, and it also forms a holder for the  
40 lower ends of the handles, and I make use of a wedge, *i*, that is introduced between the handles and into the socket *c*, for clamping the said handles and securing them firmly into the socket, and there is a screw-bolt, *k*, passing through the socket *c* and wedge *i*, and  
45 a nut by which the wedge is drawn up firmly or held in place.

There is a bolt, *o*, that passes through the  
50 handles *e*, and also through the slot in the rearward projection, *h*, behind the beam. It also passes through a bracket, *l*, upon the inside of the mold-board, which bracket is also slotted, the slots being arcs of circles, or nearly  
55 so, from the socket *c*, so that the handles can

be raised or lowered, and then clamped by the nuts at the ends of the bolt.

In cases where a bolt has been used to connect the handles to the beam and mold-board no provision has been made for tightening up  
60 the parts by spreading the handles outwardly, and if the parts become loose or the wood shrinks the mold-board is liable to be strained by tightening the bolt. I avoid all such difficulties by placing an expansion-brace between  
65 the handles, so that the handles can be clamped firmly by an outward action. This expansion-brace is made of a tube, *n*, one end of which passes into the clip-piece or washer *r*, and the other end of the tube has a screw-thread on  
70 it, and there is a nut, *s*, upon such thread, acting against the clip-piece or washer *t*. These clip-pieces are against the inner faces of the handles, and the bolt *o* passes through them and the tube *n*. The tube *n*, where it passes  
75 into the clip-piece *r*, is flattened, and the socket in said clip piece is shaped to correspond, so that the tube will not be revolved in turning the nut.

By this construction the handles can be  
80 pressed outwardly, or the distance between them adjusted, so that the parts can be clamped firmly by the bolt *o*, and the handles can be swung up or down upon the rocker-spreader when the bolt *o* is loose, and then again  
85 clamped firmly to place.

I do not claim a clamp for the lower ends of the handles, nor an adjustment to vary the inclination of such handles. By my improvement the ends of the handles are clamped  
90 within the socket by the wedge, so that they are held securely and the wood cannot be crushed or split.

I claim as my invention—

1. In a plow, the combination of a pivoted  
95 socket for receiving the lower ends of the handles, with a wedge introduced between the handles and the screw for securing the wedge in place, substantially as set forth.

2. The expansion-brace, formed of a tube  
100 and nut, in combination with the plow-handles and the clip-plates at the end of the brace and the tie-bolt passing through the handles, substantially as set forth.

Signed by me this 19th day of October, A. D. 1881.

WILLIAM A. MILES.

Witnesses:

WILLIAM C. BULLOCK,  
GILBERT UDENUS.