

No. 772,613.

PATENTED OCT. 18, 1904.

C. GRABE.
PLOW OR CULTIVATOR CLAMP.

APPLICATION FILED JAN. 11, 1904.

NO MODEL.

Fig. 1.

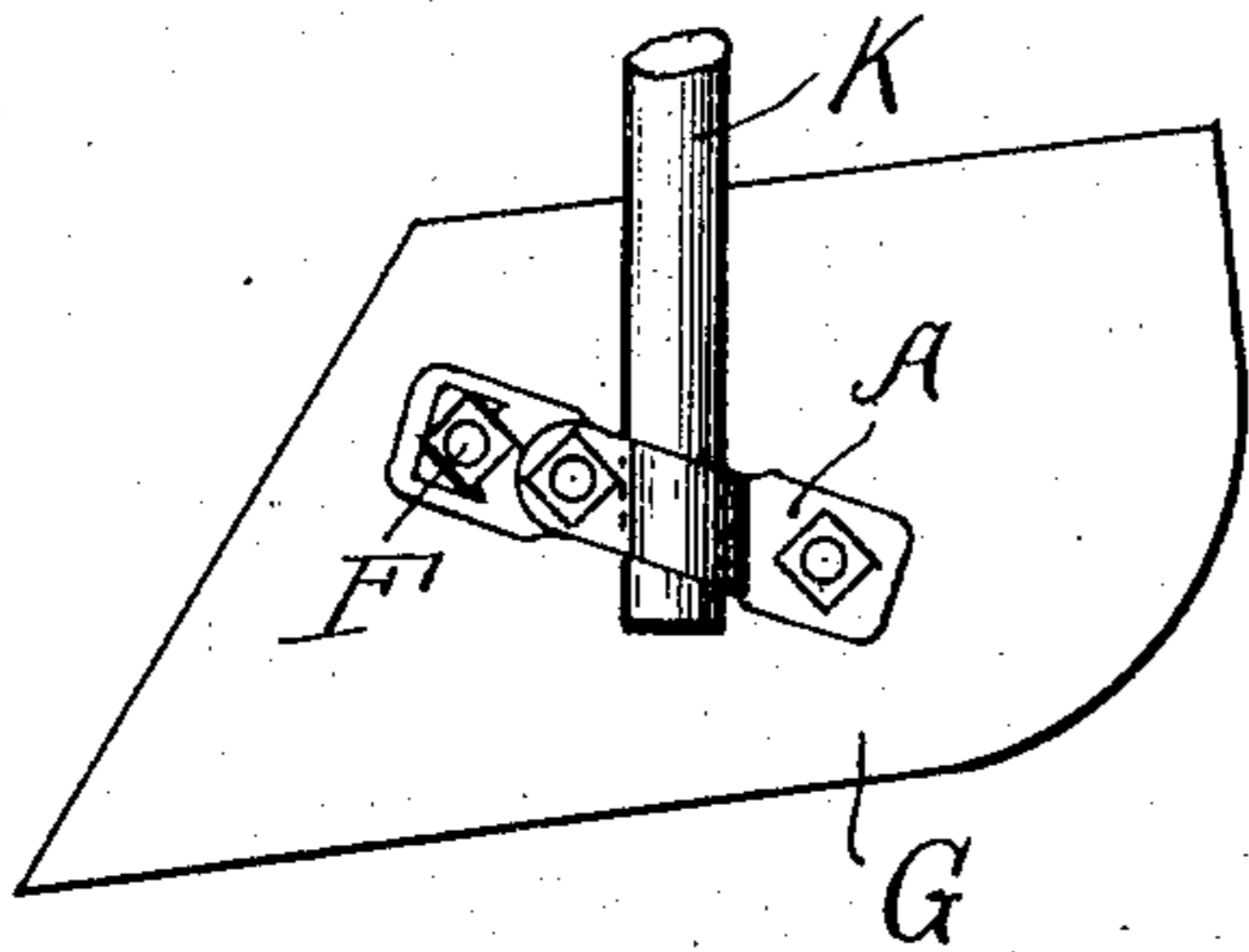


Fig. 2.

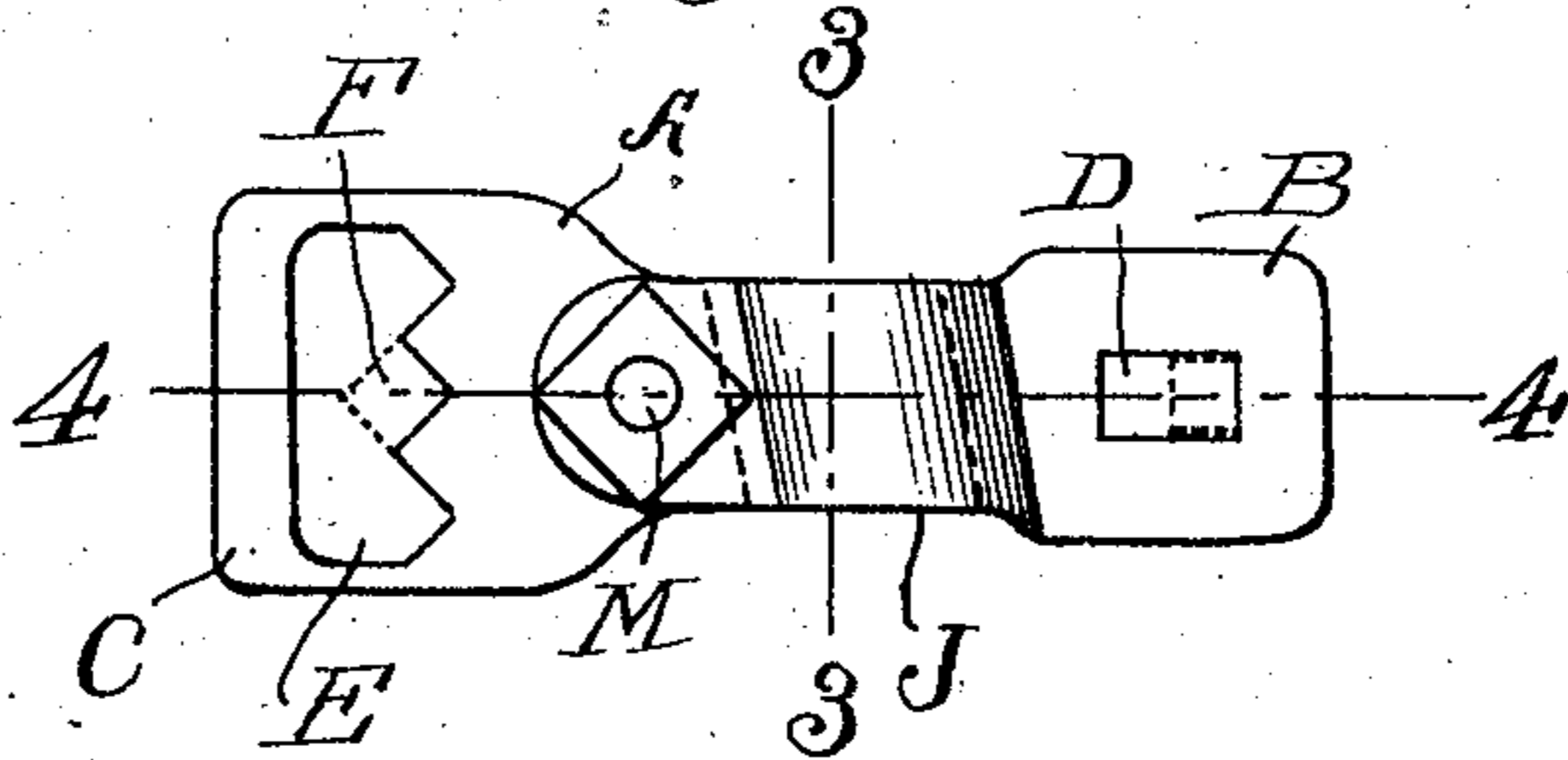


Fig. 3.

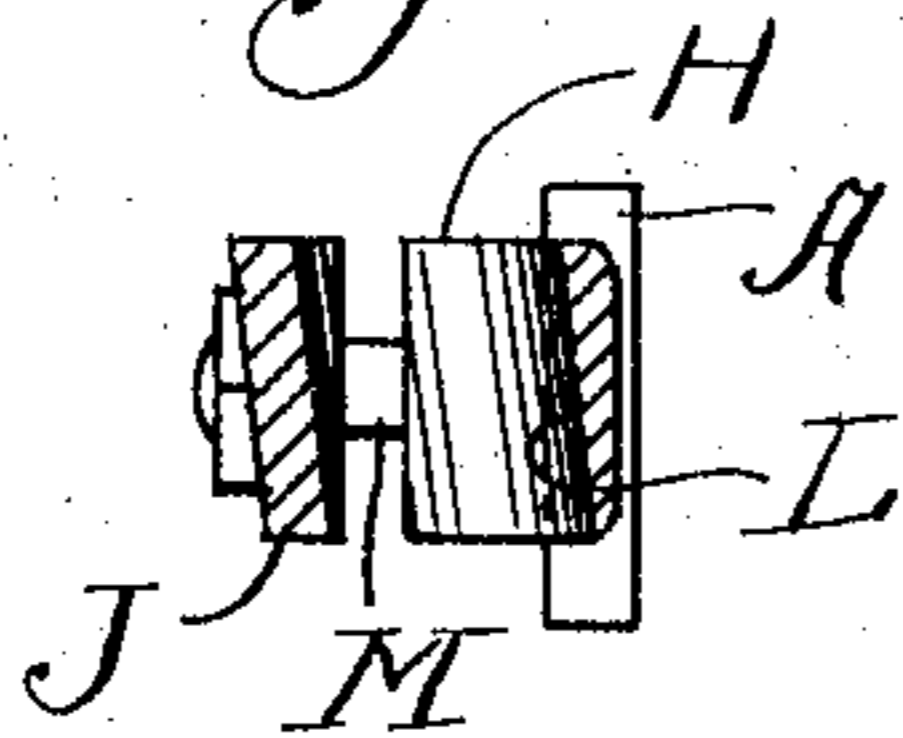


Fig. 4.

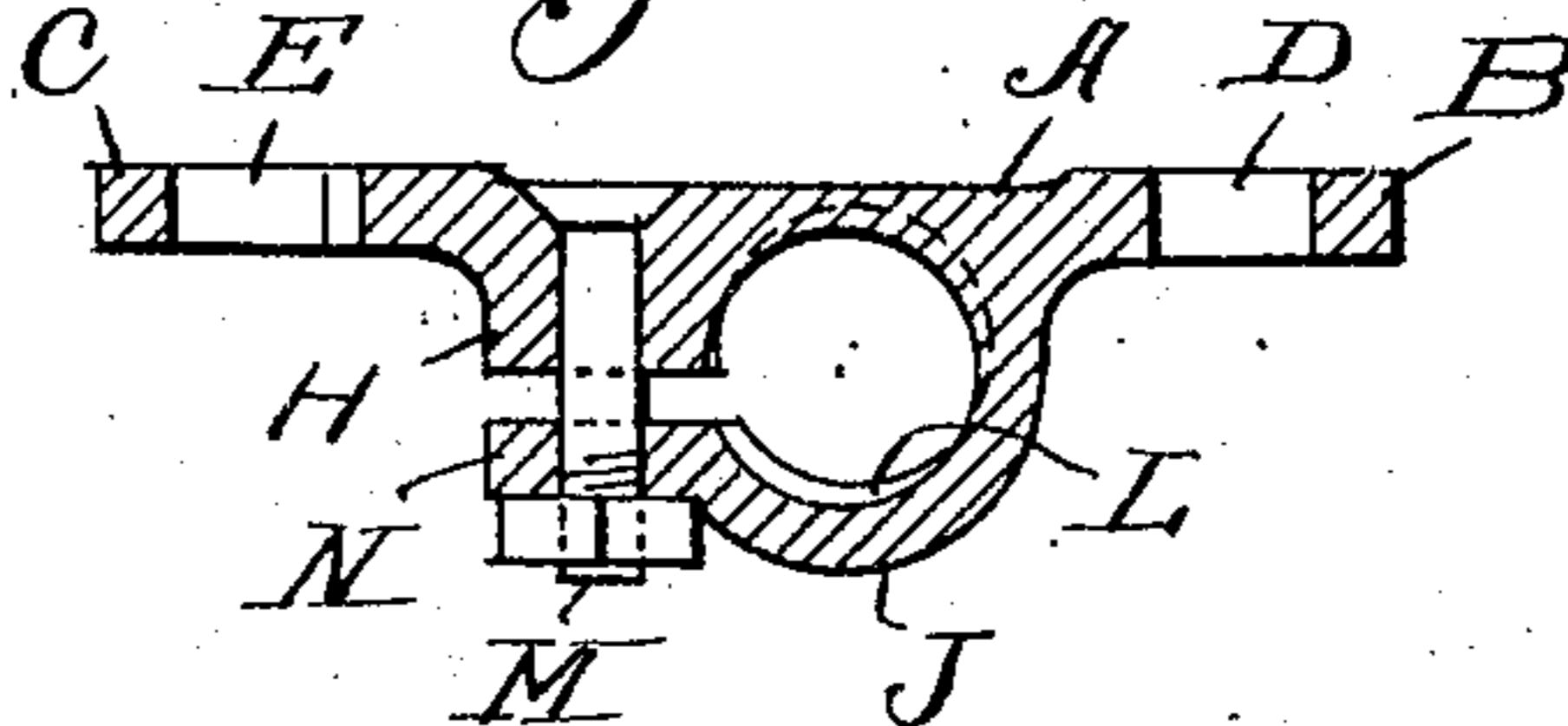


Fig. 5.

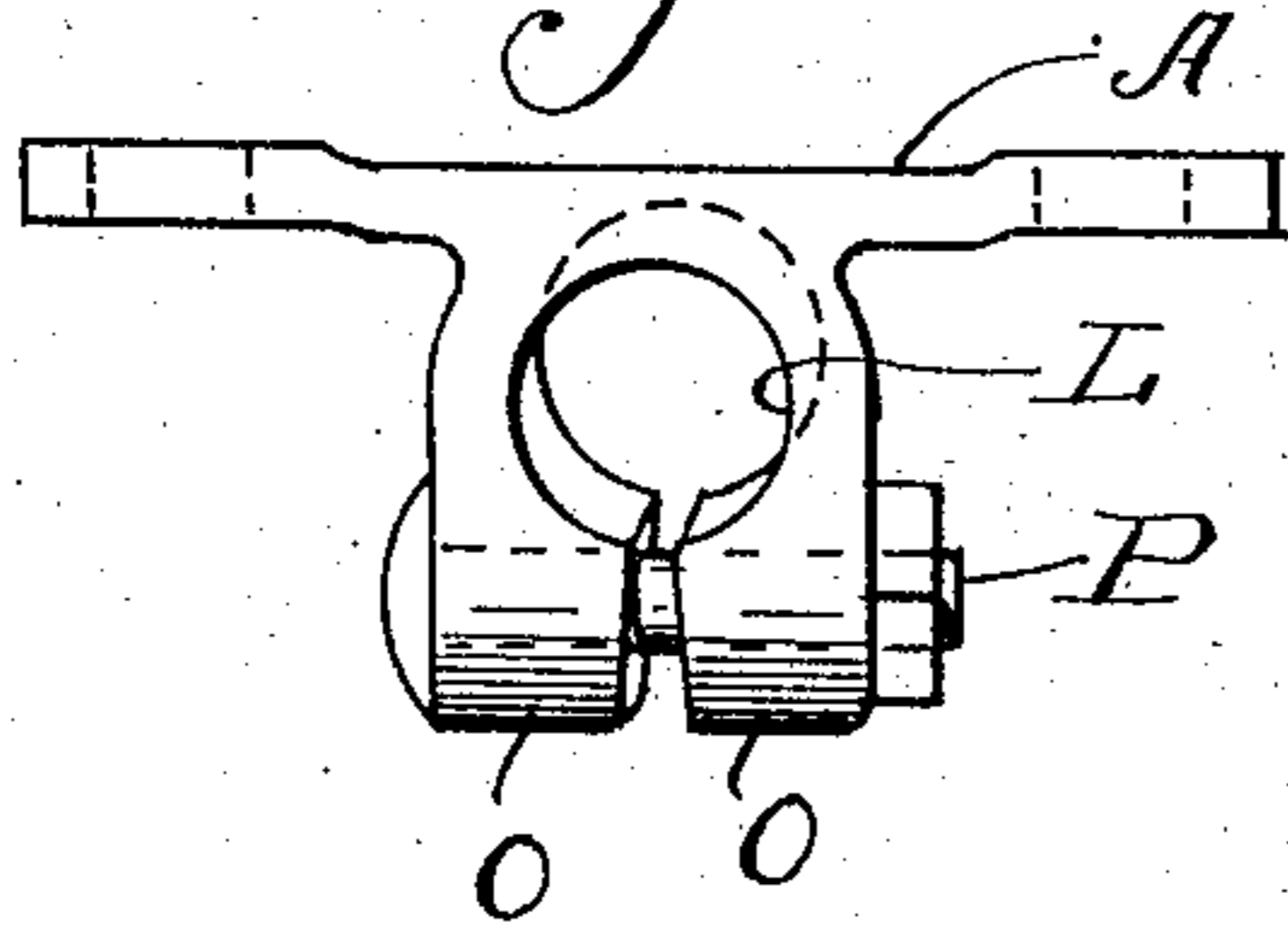
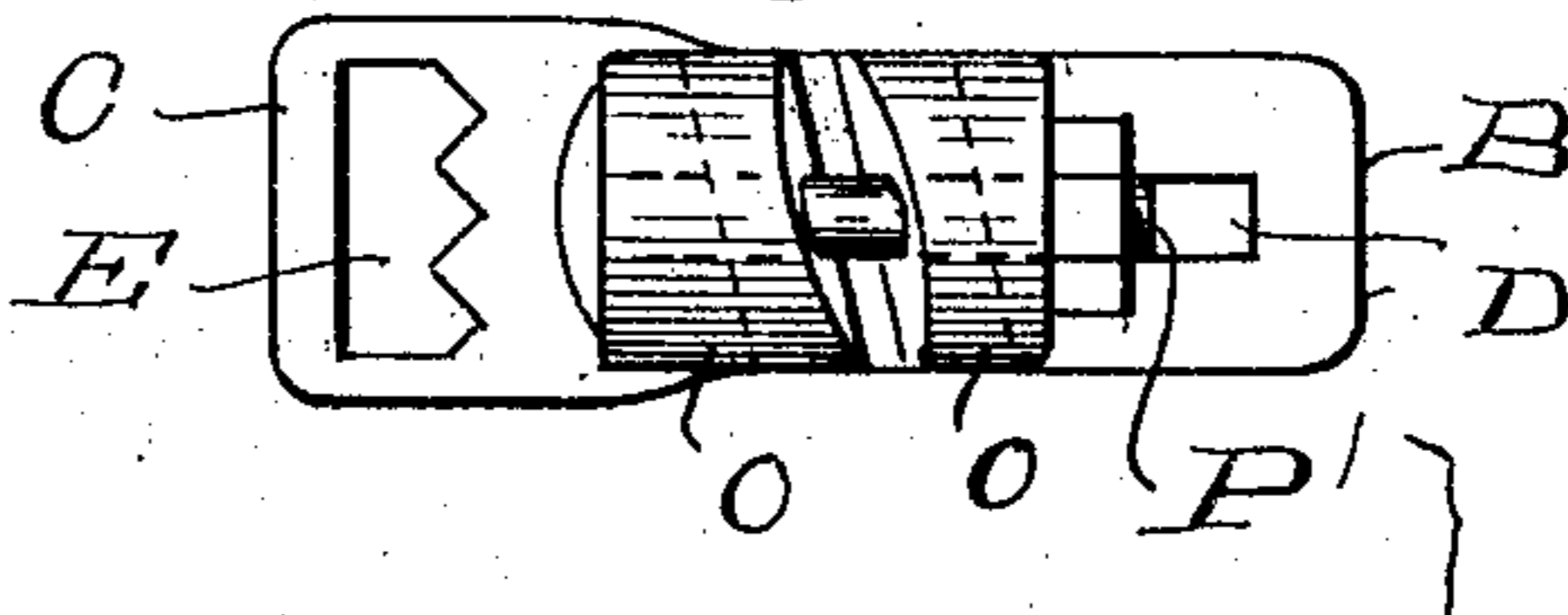


Fig. 6.



Witnesses:

E. F. Wilson

F. Schlottfeld

Inventor:

Conrad Grabe

By Rudolph K. Loh

Attorney

UNITED STATES PATENT OFFICE.

CONRAD GRABE, OF SOLLITT, ILLINOIS.

PLOW OR CULTIVATOR CLAMP.

SPECIFICATION forming part of Letters Patent No. 772,613, dated October 18, 1904.

Application filed January 11, 1904. Serial No. 188,621. (No model.)

To all whom it may concern:

Be it known that I, CONRAD GRABE, a citizen of the United States, residing at Sollitt, in the county of Kankakee and State of Illinois, have invented certain new and useful Improvements in Plow or Cultivator Clamps; 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 a novel construction in a clamp for securing the blade of a plow or cultivator to a part of the frame or carriage thereof, the object being to provide a compact, durable, and efficient clamp admitting of a wide range of adjustment of position of the blade relatively to said frame or carriage; and it consists in the features of construction and combinations of parts hereinafter fully described and claimed.

In the accompanying drawings, illustrating my invention, Figure 1 is a rear view of a plow or cultivator blade secured to a shank of the frame or carriage by means of a clamp constructed in accordance with my invention, the latter being shown in elevation. Fig. 2 is a view in rear elevation of my said clamp. Fig. 3 is a vertical transverse section of same on the line 3 3 of Fig. 2. Fig. 4 is a horizontal section of same on the line 4 4 of Fig. 2. Figs. 5 and 6 are views in elevation of a slightly-modified form of construction of my clamp.

My said clamp consists of a casting, preferably of malleable iron or similar yielding metal, and comprises a plate A, enlarged at its end portions B and C, the latter being provided with a longitudinal and a lateral slot D and E, respectively, said lateral slot E having a serrated inner wall, in the recesses of which the bolt F, securing said end to the blade G, is adapted to be received and the position of said blade relatively to said clamp thereby determined.

Between said end portions B and C said plate A is provided with a raised portion H and an overhanging lip or strap J, between which and the body of said plate A the vertical arm or shank K of the frame or carriage

is adapted to be received and clamped, the said overhanging lip and the body of said plate being relatively arranged to form a split sleeve having a cylindrical opening L for the reception of said arm or shank K. A bolt M passes through an opening in the enlarged or raised portion H and through the free flanged end N of said overhanging lip or strap J, by means of which the opening L is contracted to engage the said arm or shank K.

The said opening L is disposed at an angle to the plane of the plate A, so that the said shank K when received therein extends at an incline both rearwardly and toward one end of said plate, said opening being so disposed for the purpose of holding the blade G in a peculiar position relatively to said arm or shank K, such disposition of said opening serving to throw the upper edge of the blade G farther from said arm or shank K and the lower end thereof more nearly in alignment therewith, while at the same time the heel of said blade is raised relatively to the point thereof, such relative position of said blade being most advantageous in operation.

In Figs. 5 and 6 I have shown a slightly-modified form of construction of the clamp in which the split sleeve is formed by two arms O of equal length, the other free ends of which are enlarged and provided with horizontal openings, through which a bolt P passes, which extends practically parallel with the plate A. This construction renders the clamp more compact, inasmuch as it can be made shorter; but it lacks the elasticity of the construction illustrated in Figs. 1 and 4, inclusive. The opening L of said modified form of construction is similarly disposed relatively to said plate A as the opening L of the clamp shown in Figs. 1 to 4.

My said clamp is very durable and efficient, admitting of a wide range of adjustment, and holding the blade in the most advantageous position relatively to the frame or carriage.

I claim as my invention—

1. A plow-clamp comprising a casting consisting of a plate provided in its end portion with a longitudinal and a lateral slot respectively, adapted to receive the bolts securing

said plates to the plow-blade, said lateral slot having a series of recesses in its inner wall adapted to receive the shank of one bolt to determine the relative positions of said blade
5 and clamp, a yielding overhanging flange on said plate between the ends of same forming a split sleeve having an opening disposed at an angle to the plane of the plate, a lip on the free end of said flange parallel with the
10 plane of said plate, and a bolt passing through an opening in said lip and through the adjacent portion of said plate, said opening of said split sleeve being adapted to receive a vertical arm or shank of the frame or carriage
15 and being relatively so disposed to the plane of said plate as to tip the upper edge of said

plate forward and raise the forward end of same.

2. A plow-clamp comprising a plate having a flat base with one of its end portions formed 20 with a longitudinal slot, and its other end portion enlarged and formed with a lateral slot, the inner wall formed thereby having a series of recesses to receive the shank of one bolt, said plate central of its length being formed 25 with an integral split sleeve.

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

CONRAD GRABE.

Witnesses:

RUDOLPH WM. LOTZ,
F. SCHLOTFELD.