

No. 704,996.

Patented July 15, 1902.

C. A. WEIMER.
DETACHABLE PLOW POINT.

(Application filed Apr. 30, 1901.)

(No Model.)

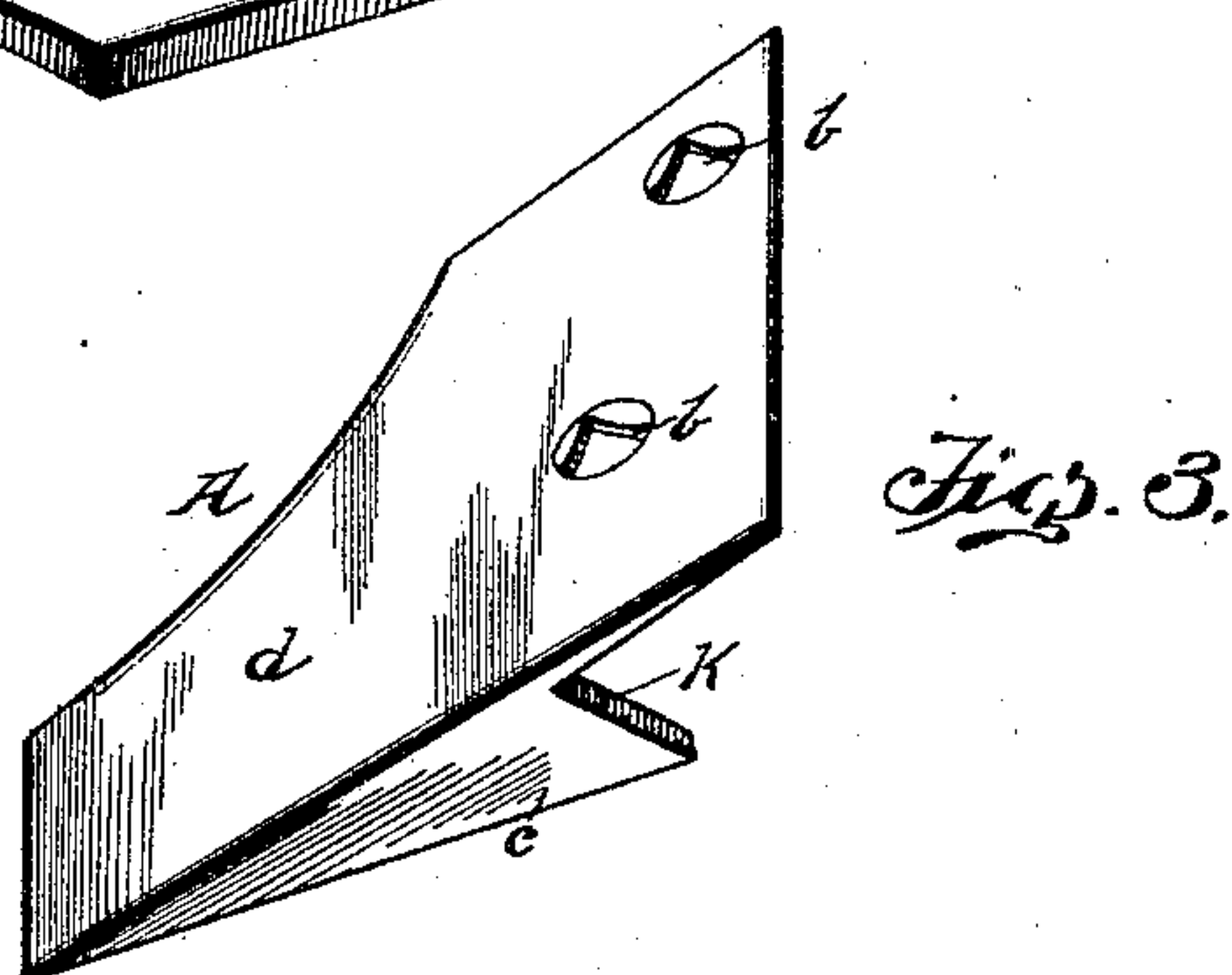
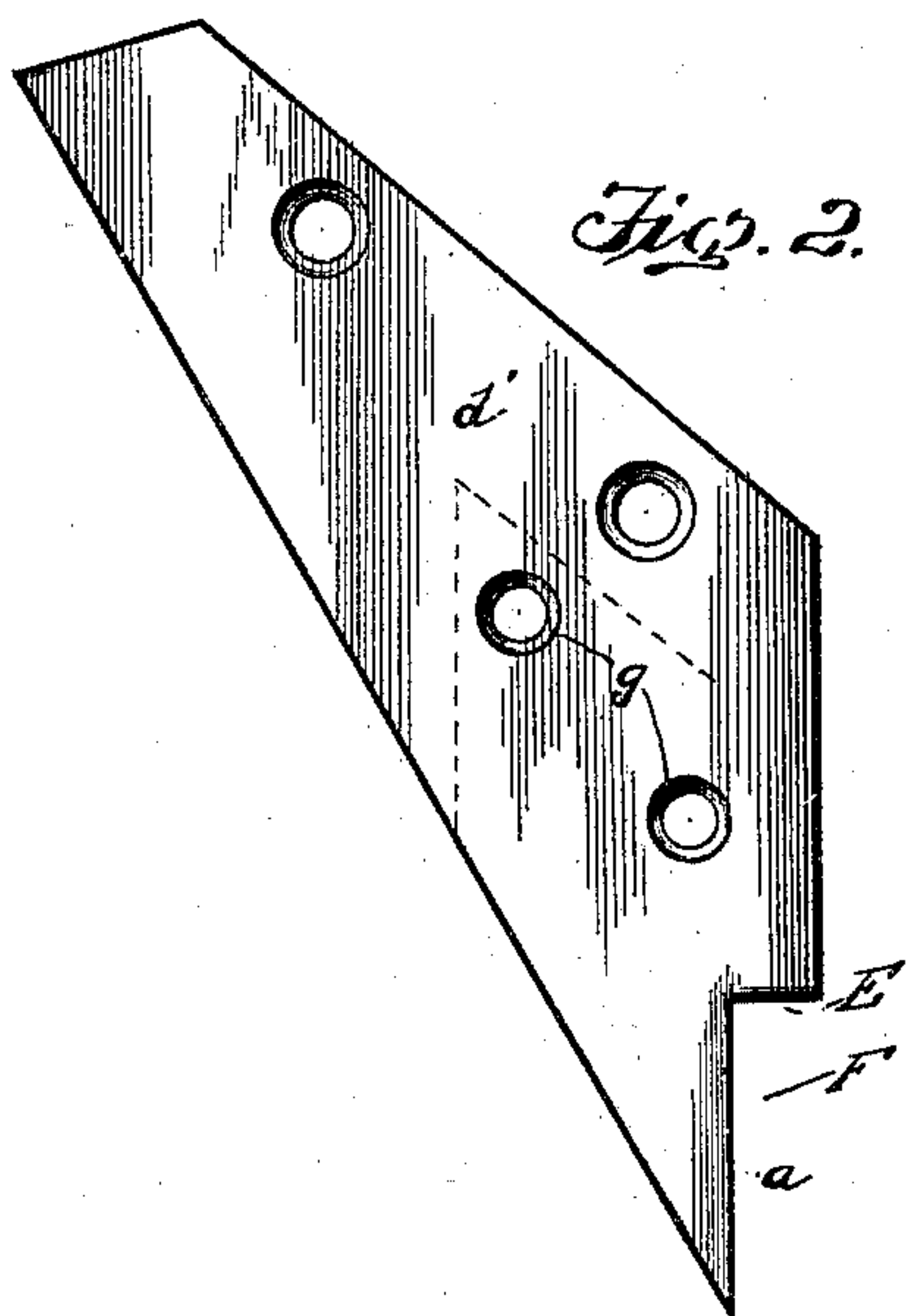
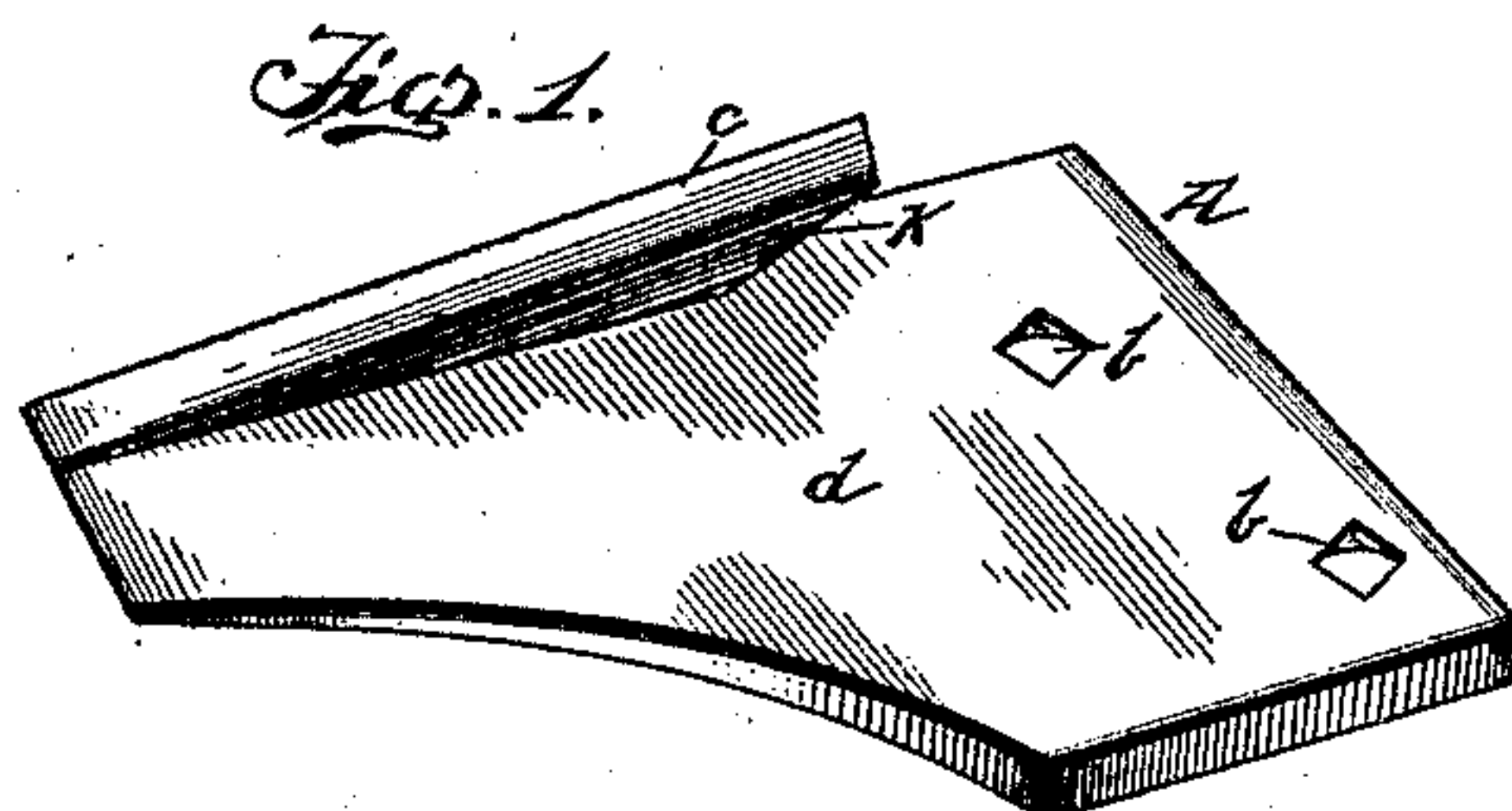
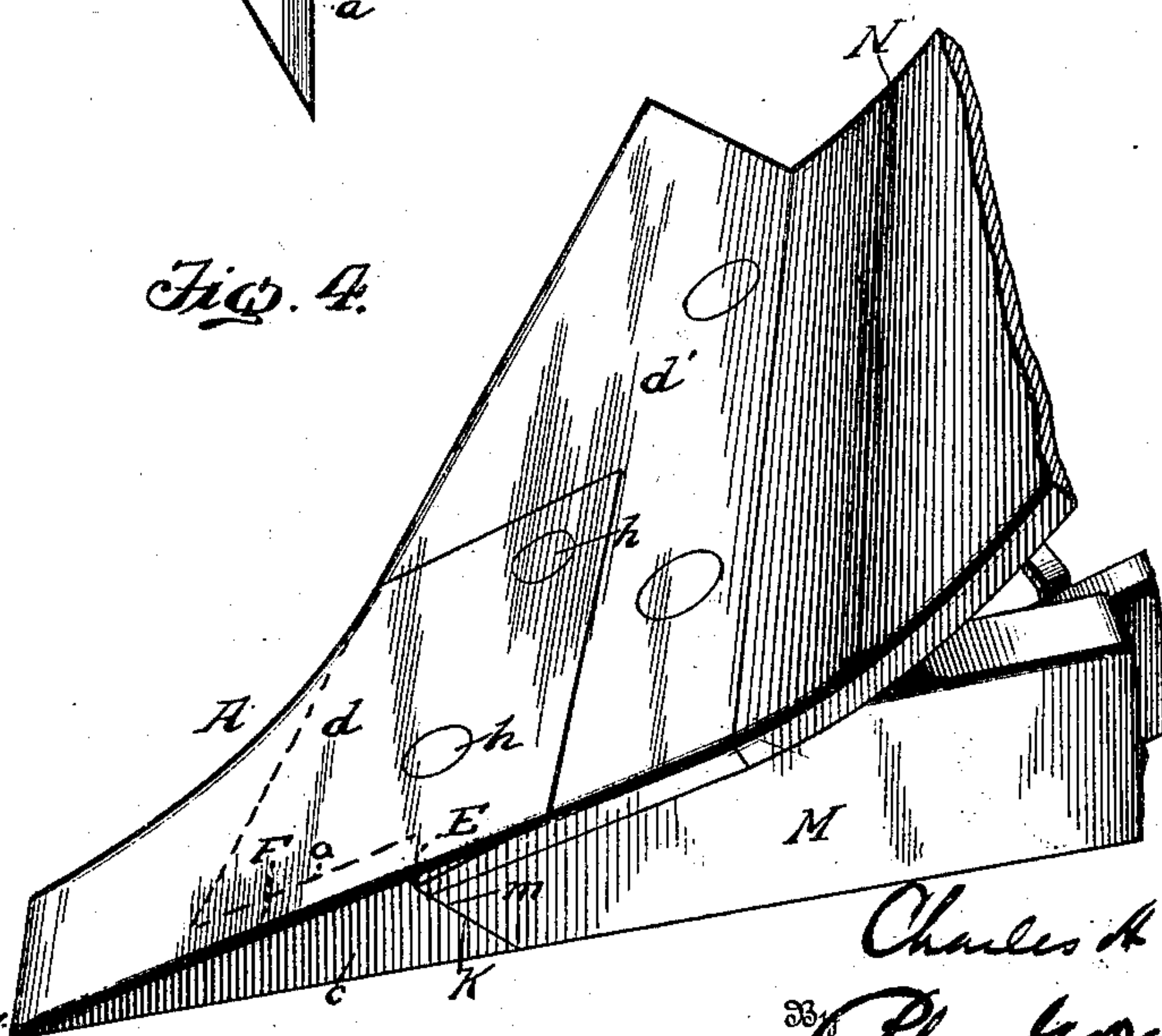


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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DETACHABLE PLOW-POINT.

SPECIFICATION forming part of Letters Patent No. 704,996, dated July 15, 1902.

Application filed April 30, 1901. Serial No. 58,194. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. WEIMER, a citizen of the United States, residing at Carrollton, in the county of Greene and State of Illinois, have invented a new and useful Improvement in Detachable Plow-Points, of which the following is a specification.

My invention relates to an improvement in my detachable plow-point on which Letters Patent No. 668,000 were granted to me February 12, 1901, the object being to provide a plow-point having the same advantages as my former plow-point, with the additional advantage of being able to construct same out of steel at a nominal cost. This improvement is obtained not only in the change made in the aforementioned plow-point, but also in a corresponding change made in the plowshare to which the plow-point is fastened.

While it is possible to make my improved plow-point of steel at a small cost owing to its simple way of construction, it is not my intention to convey the impression that it cannot be made of any other material used in the construction of plows and their parts. The plowshare, also, in order to have the effect of absolutely preventing vertical and side play is made in such a way as to be applicable to any ordinary moldboard-plow.

My invention therefore consists in certain absolutely new features of construction and combinations of parts, which will be herein-after described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a bottom perspective view showing the point constructed and adapted to apply directly to the plowshare especially constructed for the purpose. Fig. 2 is a top view of a plowshare constructed to receive my improved plow-point. Fig. 3 represents a side and partial top view of my improved plow-point, and Fig. 4 shows a plowshare with my improved plow-point, adapted to give a general idea of how the plow-point is used.

A represents my improved plow-point. It is provided with a flat plate portion *d*, adapted to rest upon the plowshare, (shown in Fig. 2,) it occupying the position indicated therein in dotted lines. The plow-point is provided with a heel *c*, which has a triangular opening *K* formed therein, and this triangular opening is constructed and adapted

to receive the forward end *m* of the landside *M* of the plowshare, which latter is shaped and cut to fit the opening as *K*, as shown in Fig. 4. The object of this arrangement is to prevent up and down or vertical play of the plow-point with respect to the other portions of the plow. The plowshare, as shown in Fig. 2, has a notch *F*, whose sides *a* and *E* fit against the heel *c*, the plow-point and the side *E* fitting into notch *K* and side *a* against heel *c*, where the heel and plate *d* form an angle. Holes *b b* are formed in the flat portion of plate *d* of the plow-point, and the corresponding holes *g g* in the plowshare receive bolts *h h*, which secure the plow-point in position. These fastening means—namely, the notch *F*, fitting into the end and side of heel *c*, the recess *K*, receiving the projection *m*, and bolts *h h*—constitute an effectual and perfect fastening for the plow-point, at the same time requiring a minimum of time and trouble in the application and adjustment or removal of the point from the plow. By means of the several fastenings the point is held in a perfectly rigid and fixed position with relation to the moldboard *N* and landside *M*, from which it cannot move except as the bolt *h* itself is loosened and taken from the holes *b b* and *g g*. In this manner a simple, inexpensive, and most effectual steel plow-point is provided.

It is evident that slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein set forth; but,

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A plow-point having a flat portion or plate with the heel forming the only elevation thereon, a plowshare with a special-shaped notch at the forward corner to fit against the heel and plate of the point to prevent lateral or side play, said plow-point also provided with a triangular opening formed by the juncture of the plate and heel of the point to receive a corresponding projection on the landside of the plow whereby to prevent vertical play of the plow-point.

2. The combination with a plowshare having a notch of special shape in its forward

corner and a landside having a projection in
its forward edge, of a plow-point having a per-
fectly flat lower surface provided with a heel
adapted to receive the notch of the plowshare
5 and whose triangular notch formed by the
juncture of the heel and plate is adapted to
receive and fit the projection on the forward
edge of the landside, said plow share and point
having holes therein and bolts adapted to pass

through said holes thereby to secure the plow- 10
point in position and complete the fastening.

In testimony whereof I have signed this
specification in the presence of two subscrib-
ing witnesses.

CHARLES A. WEIMER.

Witnesses:

JACOB GRASER,
ROSS NEWBOLD.