A. G. LEAVE.

PLOW LAY.

APPLICATION FILED APR. 25, 1910.

995,973.

Patented June 20, 1911.

Fig. 1

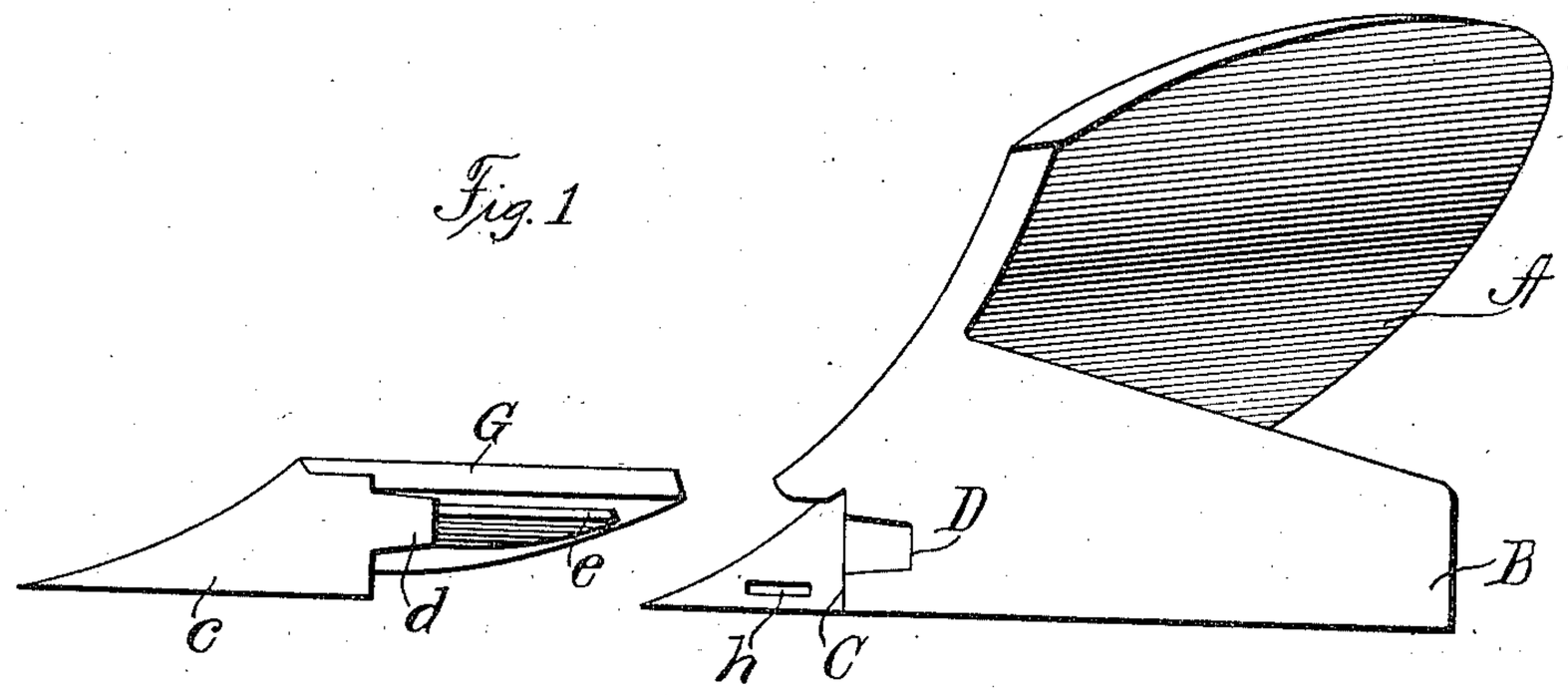


Fig. 2

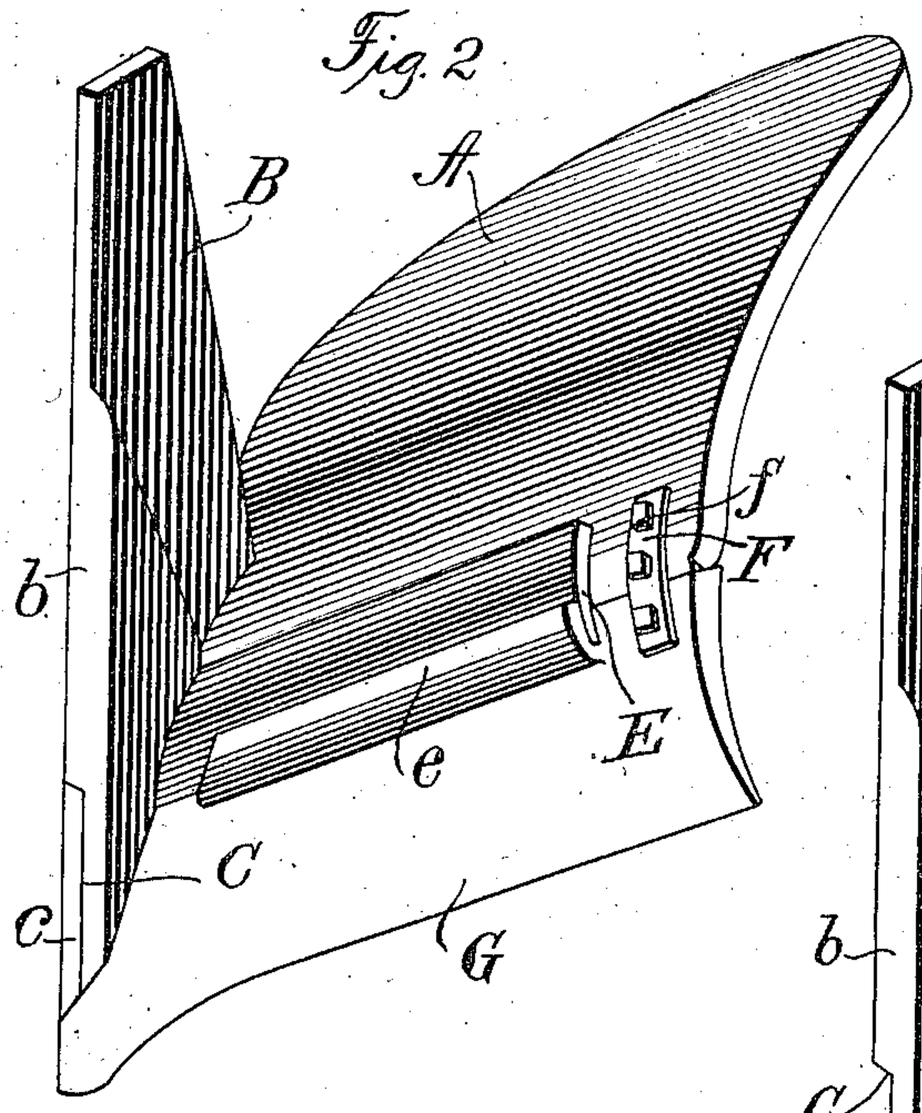
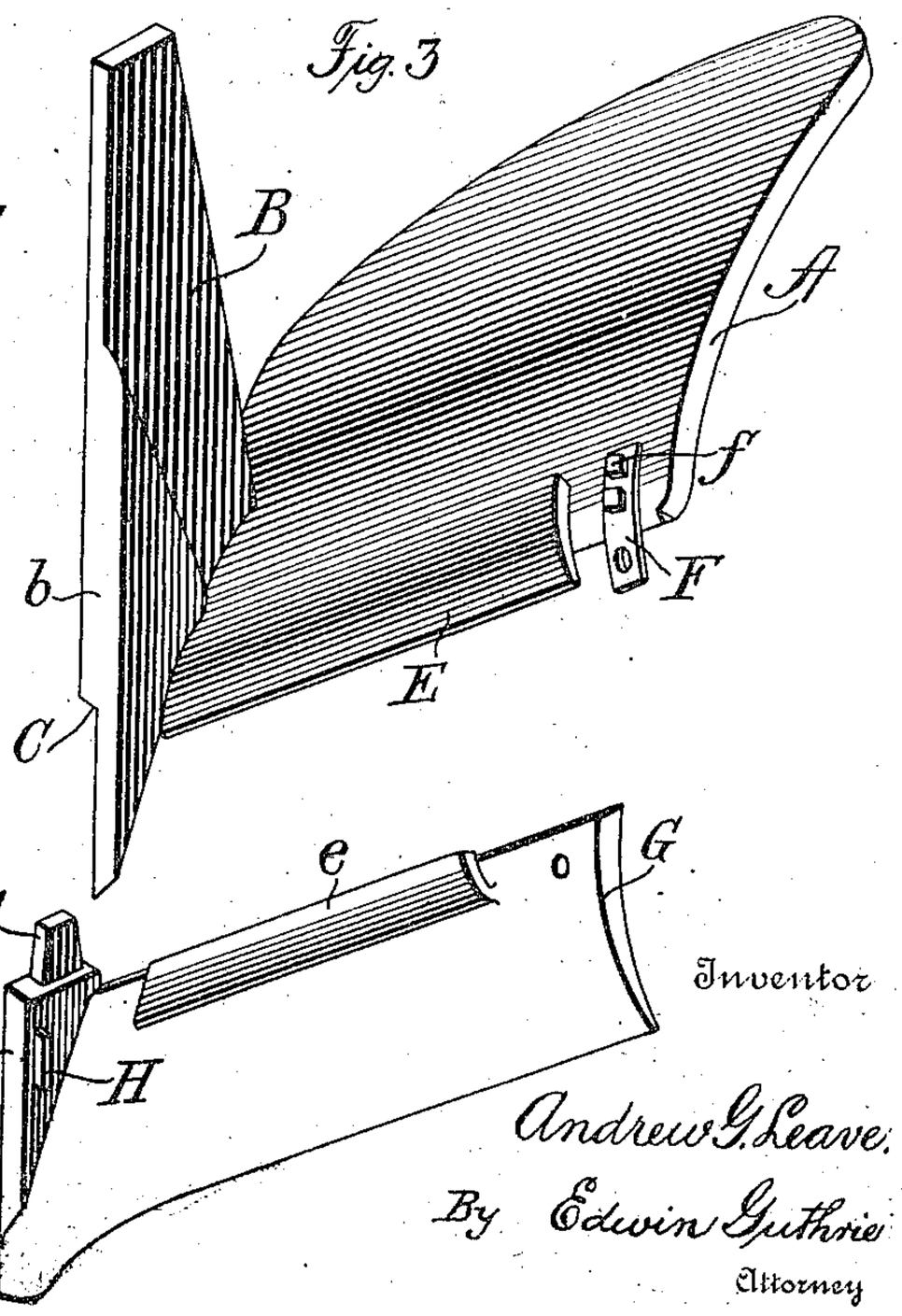


Fig. 3



Witnesses

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UNITED STATES PATENT OFFICE.

ANDREW GUSTAVE LEAVE, OF MINOT, NORTH DAKOTA, ASSIGNOR OF ONE-HALF TO CHARLES J. WHITE, OF MINOT, NORTH DAKOTA.

PLOW-LAY.

995,973. Specification of Letters Patent. Patented June 20, 1911.

Application filed April 25, 1910. Serial No. 557,529.

To all whom it may concern:

Be it known that I, ANDREW G. LEAVE, a citizen of the United States, residing at Minot, in the county of Ward and State of North Dakota, have invented certain new and useful Improvements in Plow-Lays, of which the following is a specification.

This invention relates to plow lays, and has for its object the production of a plow having a removable portion or lay provided with a point, and the two portions of the plow having parts of special construction and particular arrangement for securing them together without using bolts near the point of the plow where they would be hard to reach and difficult to remove.

The special construction constituting this invention is illustrated in the accompanying drawings, of which—

Figure 1 represents a side view showing the two portions separated. Fig. 2 is a perspective rear view and shows all parts assembled. Fig. 3 is a perspective rear view, showing the two portions separated.

The same letter is used to refer to the same part throughout the drawings and the description.

The mold board is designated by the reference letter A, and the landside by the letter B. Toward the point of the plow the landside has two recesses. One recess is a large triangular recess, and the other is a smaller recess. The larger recess is marked C and the smaller recess which opens into the larger recess is referred to by the letter D. These recesses will be again mentioned.

As best shown in Fig. 3, it will be noted that the mold board has a projecting portion E extending downwardly from its lower edge and usually formed integrally with it. The edge of the projecting portion E engages the removable portion of the invention as more fully explained below.

The two portions of this invention require only the single bolted plate or strap F having the bolts *f* all within easy reach for removal. The bolts pass through the plate F, and through the mold board A and the lay G.

In Figs. 2 and 3 it is shown that the lip *e* that is formed near the upper edge of the lay G on the rear of the lay, leaves a space between it and the lay into which the edge of the projecting portion E on the rear side of the mold board fits. These parts are constructed very strong, and they take up practically all the strain that is exerted against the other side of the mold board and lay, and there is relatively no force thrown upon the bolted plate connection F.

To hold the plow point rigidly in its proper position, when the two portions are brought together from their separated attitudes as shown in Fig. 3, the triangular projecting portion *c* of the lay G engages the recess C, and the wedge-shaped block *d* engages the recess D, at the same time the lug H is inserted into the slot *h* in the bottom of the recess C, as best shown in Fig. 1. In constructing this invention, the parts are made to fit well. Thus, the edge of the projecting portion E in rear of the mold board fits closely the space between the lip *e* and the rear surface of the lay, and the parts *c*, *d*, and H, fit the recesses C, D, and the slot *h*. When the two portions are assembled, they form practically one rigid plow capable of withstanding the hardest service, yet having no bolted connections excepting the plate F and bolts *f*. It will be observed that the bolts *f* are so placed as to be conveniently reached at any time when it is desired to remove the lay.

Having now described this invention, what I claim and desire to secure by Letters Patent of the United States is:—

A plow, comprising two separable portions, one portion being relatively the larger portion forming the greater part of the moldboard and landside, the other and smaller portion forming the plow point and the complemental parts of the moldboard and landside, the lower front part of the landside of said larger portion having a larger and a smaller recess communicating with each other, and the landside of said smaller portion of the plow having parts constructed to engage the said recesses, the moldboard of said larger portion having a projection extending along its bottom front

edge, and the moldboard part of said smaller portion of the plow having a lip constructed and arranged to engage said projection of the said larger portion, and means adjacent to said engaged lip and projection constructed to secure the said two portions of the plow together.

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

ANDREW GUSTAVE LEAVE.

Witnesses:
JOHN J. COYLE,
AMOS HINGSTAD.