(No Model.) 2 Sheets—Sheet 1.

C. G. HERRSTRÖM.

MOLD BOARD FOR PLOWS.

No. 355,931. Patented Jan. 11, 1887.

Fig. 1.

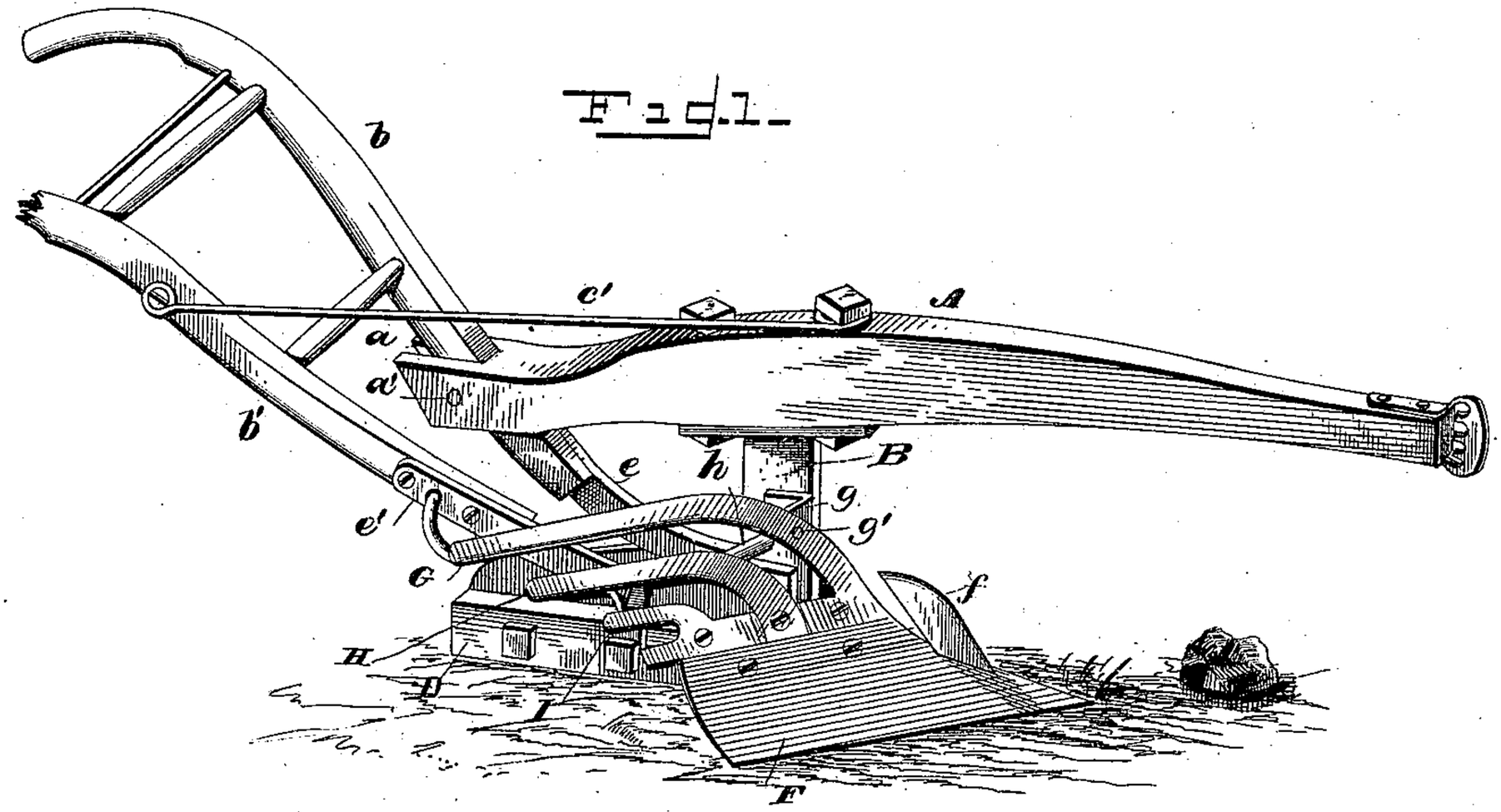
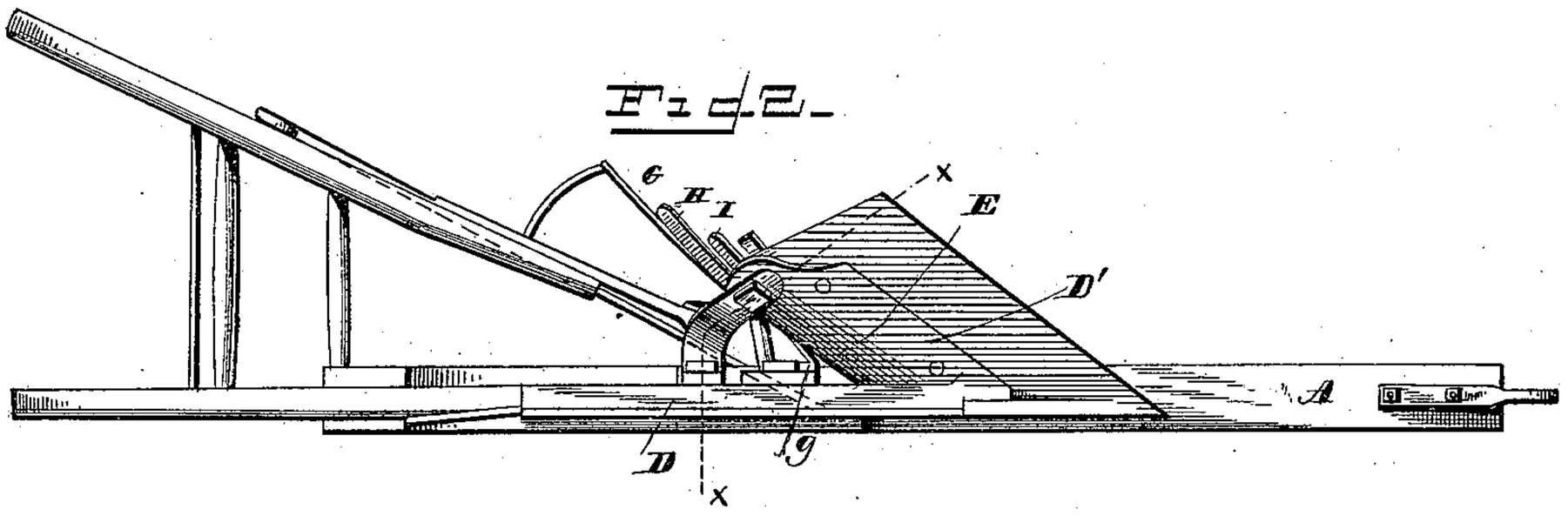


Fig. 2.



WITNESSES

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(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.

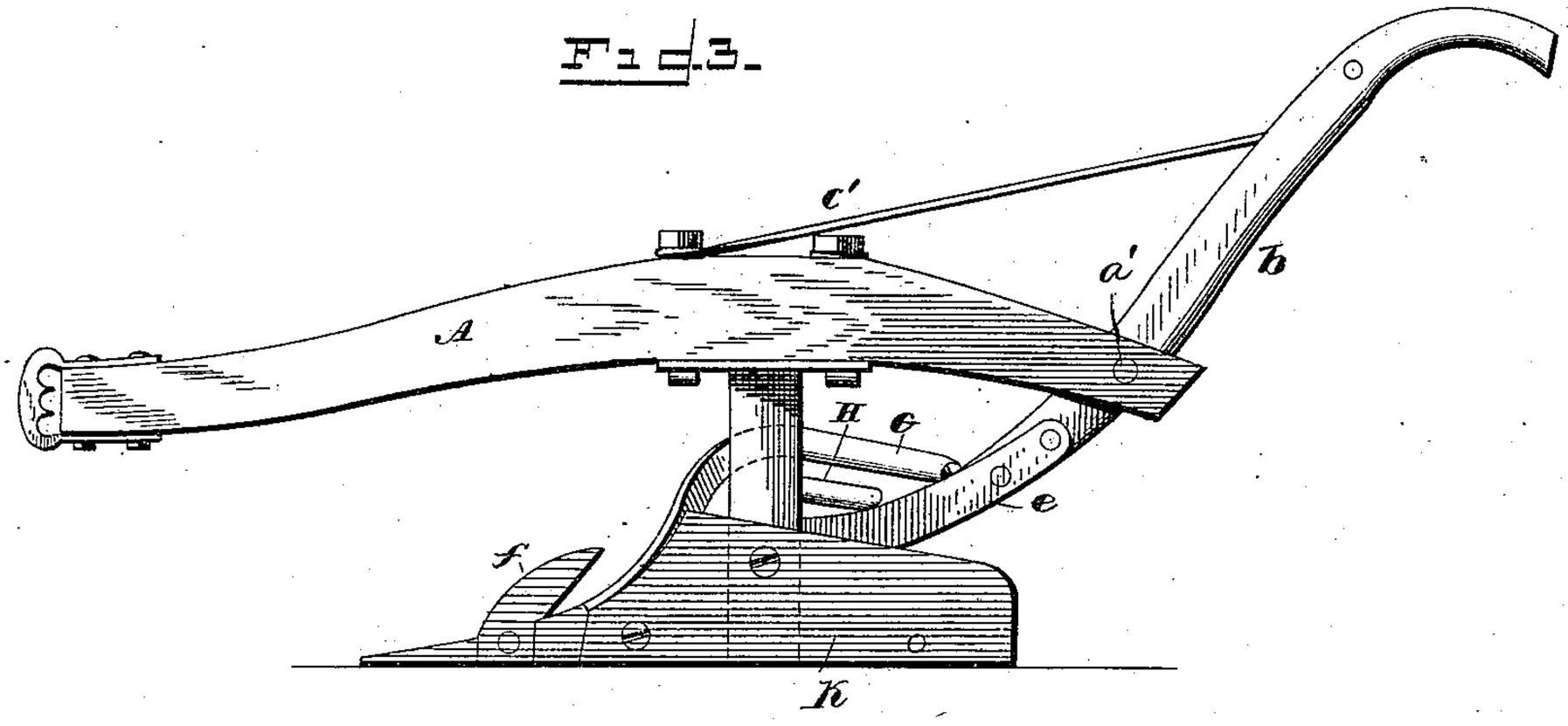


Fig. 4.

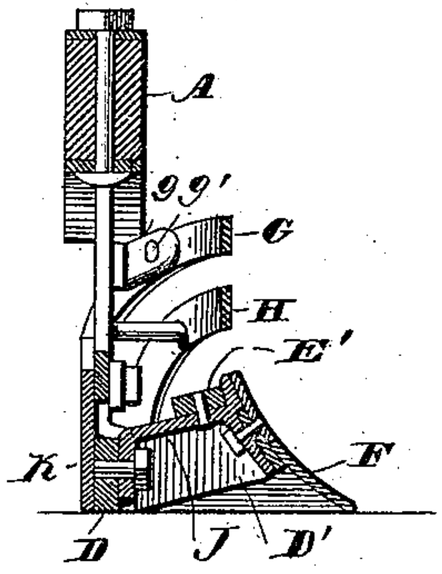


Fig. 5.

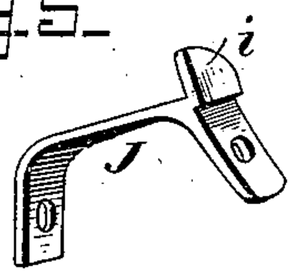
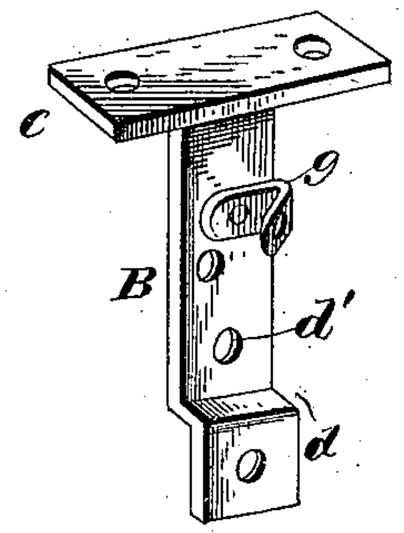


Fig. 6.



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UNITED STATES PATENT OFFICE.

CARL GÖRRAN HERRSTRÖM, OF MOUND VALLEY, KANSAS.

MOLD-BOARD FOR PLOWS.

SPECIFICATION forming part of Letters Patent No. 355,931, dated January 11, 1887.

Application filed September 9, 1886. Serial No. 213,138. (No model.)

To all whom it may concern:

Be it known that I, CARL GÖRRAN HERRSTRÖM, a citizen of the United States of America, residing at Mound Valley, in the county of Labette and State of Kansas, have invented certain new and useful Improvements in Mold-Boards for Plows; 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in plows; and it consists more especially in the construction of a mold-board and the attachment thereof to the share and plow-frame.

My invention also consists in the construction and combination of the parts, as shown in the drawings, and as will be hereinafter fully set forth.

In the accompanying drawings, which illustrate my invention, Figure 1 is a perspective view of a plow constructed in accordance with my improvement. Fig. 2 is a bottom view. Fig. 3 is a side view of the plow, looking toward the landside. Fig. 4 is a vertical sectional view. Fig. 5 is a detail perspective view of one of the braces, and Fig. 6 is a detail perspective view.

A refers to the plow-beam, which is bifurcated at its rear end, as shown at *a*, so that one of the handles, *b*, will pass through the said bifurcated portion of the plow-beam, where it is attached thereto by a bolt, *a'*. The opposite handle, *b'*, is similar in construction to the handle *b*, said handles being of equal length. These handles *b* and *b'* are connected together by transverse brace-rods in the usual manner.

To the beam A in front of the handles is attached a standard, B, which is provided at its upper portion with a plate, *c*, which has perforations through which pass bolts for securing the standard to the plow-beam, the front or forward bolt also serving to secure in place one end of a brace-bar, *c'*, which extends therefrom to near the upper end of the handle *b'*. The lower end of the standard is bent at an angle, as shown at *d*, so that it will lie over the longitudinal bar D, which is adjacent to the landside.

The standard B, at a slight distance above its bent portion, is provided with a bolt-hole or perforation, *d'*, through which passes a suitable bolt, which assists in holding in place the landside proper and the lower end of a curved metallic bar which is attached to the lower end of the handle *b*, said bar being referred to by the reference-letter *e*.

E refers to a metallic casting, which is made up of a single piece, the contour of the front portion, D', being the same as the contour or configuration of the share and lower portion of the mold-board of the plow, and the longitudinal bar, D, hereinbefore referred to, is formed integral therewith, said casting E forming substantially the main frame of the plow. To the front portion, D', of the casting E is attached by suitable bolts the share F, which is provided in rear of the point of the plow with an upwardly and rearwardly projecting colter, *f*.

Instead of providing the plow with a solid mold-board I make use of what I term "mold-board strips," said strips being indicated by the letters G, H, and I, which are curved, as shown in the accompanying drawings, the lower ends thereof being attached by suitable bolts or rivets to the upper edge of the portion D' of the casting E.

The mold-board strip G is curved upwardly and rearwardly, and is secured by means of a bolt, *g'*, to an angle-brace, *g*, which is attached to the standard B, and its rear end is reduced in size and bent inwardly, so as to engage with a perforation in the bar *e'*, which is attached to the lower end of the handle *b'*, said bar being connected at its lower end to a brace, as shown in Fig. 5. The mold-board strip H is also curved upwardly and rearwardly, but to a less extent than the adjacent strip above, and it is also braced to the standard B by a bar, *h*. The end strip has two projecting portions which extend under the share F, the upper projecting portion being braced by contacting with the upwardly-projecting portion *i* of the brace shown in Fig. 5. The brace shown in Fig 5, hereinbefore referred to, is secured at one end to the bar D of the casting E, and at its opposite end to the rear portion of the por-

tion D′, and to its intermediate portion this brace J has attached thereto the end of the bar E′. The landside K of the plow is of ordinary construction.

A plow constructed as hereinbefore described is especially adapted for stirring the ground, as the mold-board strips will to a great extent pulverize the earth. The draft of the plow is quite light, owing to the small amount of friction upon the mold-board strips.

I am aware that prior to my invention it was not, broadly, new to provide a plow with a mold-board which consists of an open frame or rearwardly-projecting fingers, as shown in Patent No. 158,026, dated December 22, 1874, and I do not, therefore, claim such construction broadly; but

What I claim as new, and desire to secure by Letters Patent, is—

In a plow, a skeleton mold-board comprising a strip, G, having a lower arm to abut upon the share, and curved upwardly and rearwardly to the handle-brace, a central strip, H, and a forked end strip, I, arranged to complete the share-extension and secured to the arched brace J, substantially as shown, and for the purpose set forth.

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

CARL GÖRRAN HERRSTRÖM.

Witnesses:
JNO. F. HILL,
E. D. KINSEY.