E. C. HEGELER & F. W. MATTHIESSEN.

DOGS FOR SHEET-METAL ROLLING-MILLS.

No. 194,598. Patented Aug. 28, 1877.

Fig. 1.

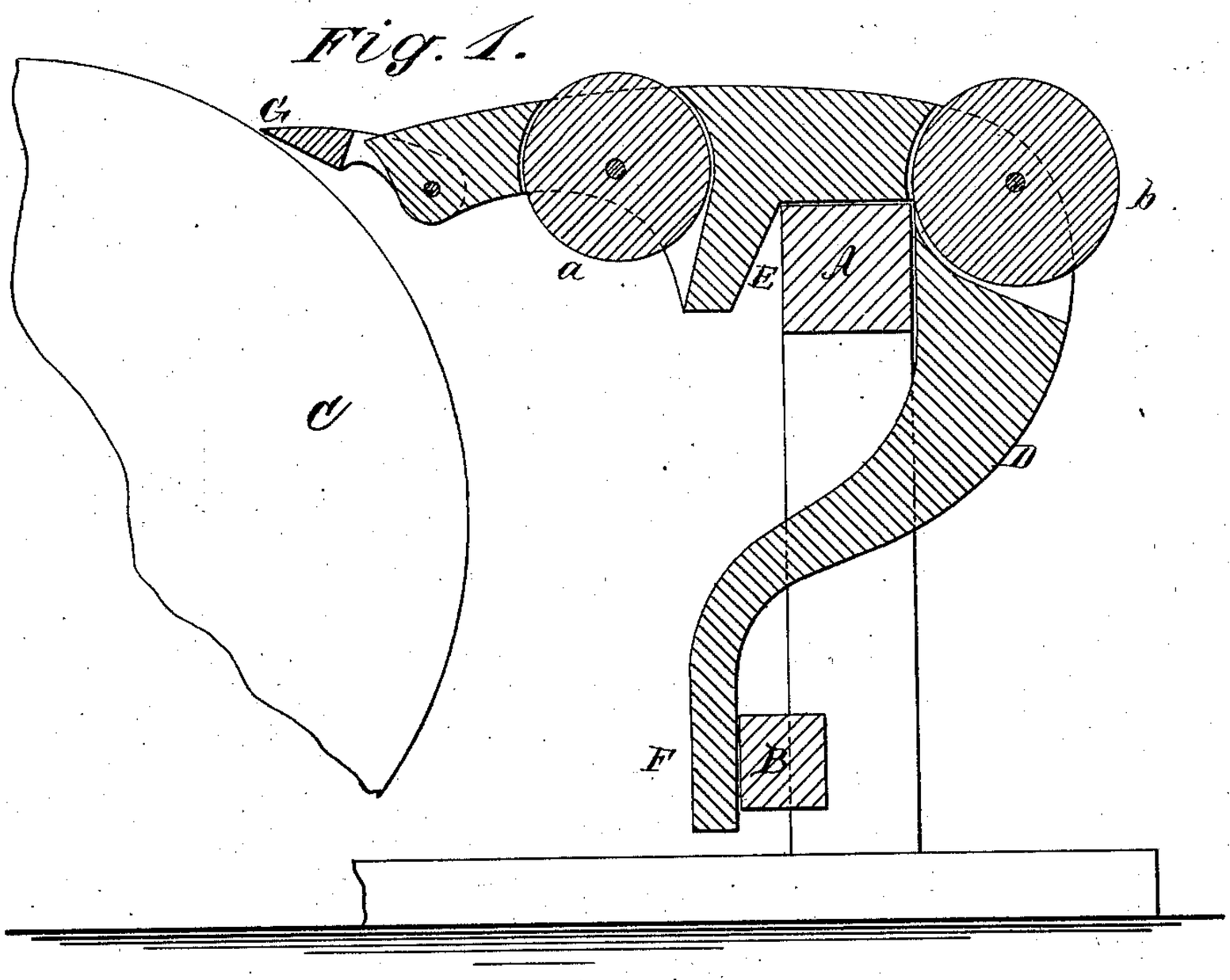
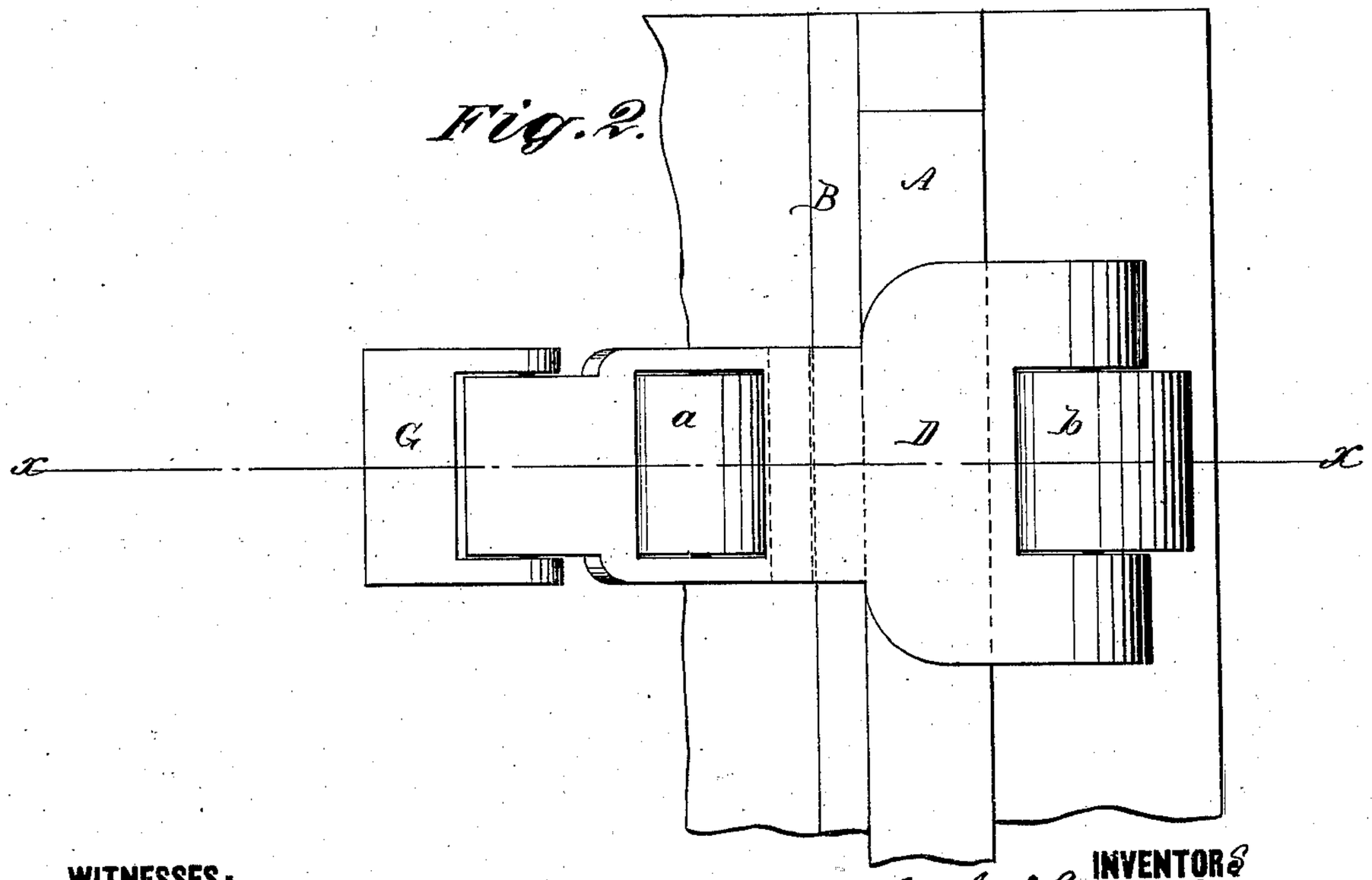


Fig. 2.



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UNITED STATES PATENT OFFICE.

EDWARD C. HEGELER AND FREDERICK W. MATTHIESSEN, OF LA SALLE, ILL.

IMPROVEMENT IN DOGS FOR SHEET-METAL-ROLLING MILLS.

Specification forming part of Letters Patent No. **194,598**, dated August 28, 1877; application filed June 4, 1877.

To all whom it may concern:

Be it known that we, EDWARD C. HEGELER and FREDERICK W. MATTHIESSEN, of La Salle, in the county of La Salle and State of Illinois, have invented a new and Improved Dog for Sheet-Metal-Rolling Mills, of which the following is a specification:

Figure 1 is a vertical section taken on line *x x* in Fig. 2. Fig. 2 is a plan view.

Similar letters of reference indicate corresponding parts.

Our invention relates to the dogs (so called) that are placed at the rear side of the rolls used in the manufacture of sheet metal; and it consists in a jointed dog, provided with friction-rollers, and with a tail-piece or lever that sustains the weight of the dog, and also any pressure that may be exerted upon it by the sheets of metal passing through the rolls.

Dogs for this purpose, as ordinarily made, are formed from a single piece of metal, the full weight of one end of which rests upon the roll, and, as the roll revolves, the dog not only cuts the roll, causing it to produce imperfect sheets of metal, but the roll also soon destroys the dog, and the expense of repair is incurred.

Another difficulty common to the ordinary style of dog is that the sheets of metal, in passing from the rolls over the dogs, become scratched and injured in appearance. By our improvement these difficulties are obviated.

Referring to the drawings, A and B are bars attached to some portion of the mill framing or to the housings at the rear of the roll C. Upon the bar A the curved casting D, having the notch E, is placed. The lower end F of the casting D is curved, forming a tail-piece or lever that rests against the front of the bar B. A nose-piece, G, is jointed to the front end of the casting D, and rests upon the roll C. Rollers *a b* are journaled in the upper side of the casting D, on opposite sides of the bar A. The sheet metal, as it passes from the rolls, will be received by the nose-piece G, and directed so that it will pass over the rolls *a b* to the table of the rolling-mill.

The apparatus may be made of iron, brass, or other suitable material.

It will be seen that the weight of the casting and friction-rolls, and the pressure of the sheets, are sustained by the tail-piece, and that only a part of the weight of the nose-piece rests upon the roll.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. A dog for sheet metal-rolling-mills supported by bars A B, and provided with the hinged nose-piece G, substantially as shown and described.

2. The combination of the casting D, having the curved end or tail-piece F, and nose-piece G and the rollers *a b*, as shown and described.

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