(No Model.)

E. G. LUSCHER.

COAL HOD.

No. 278,157. Patented May 22, 1883.

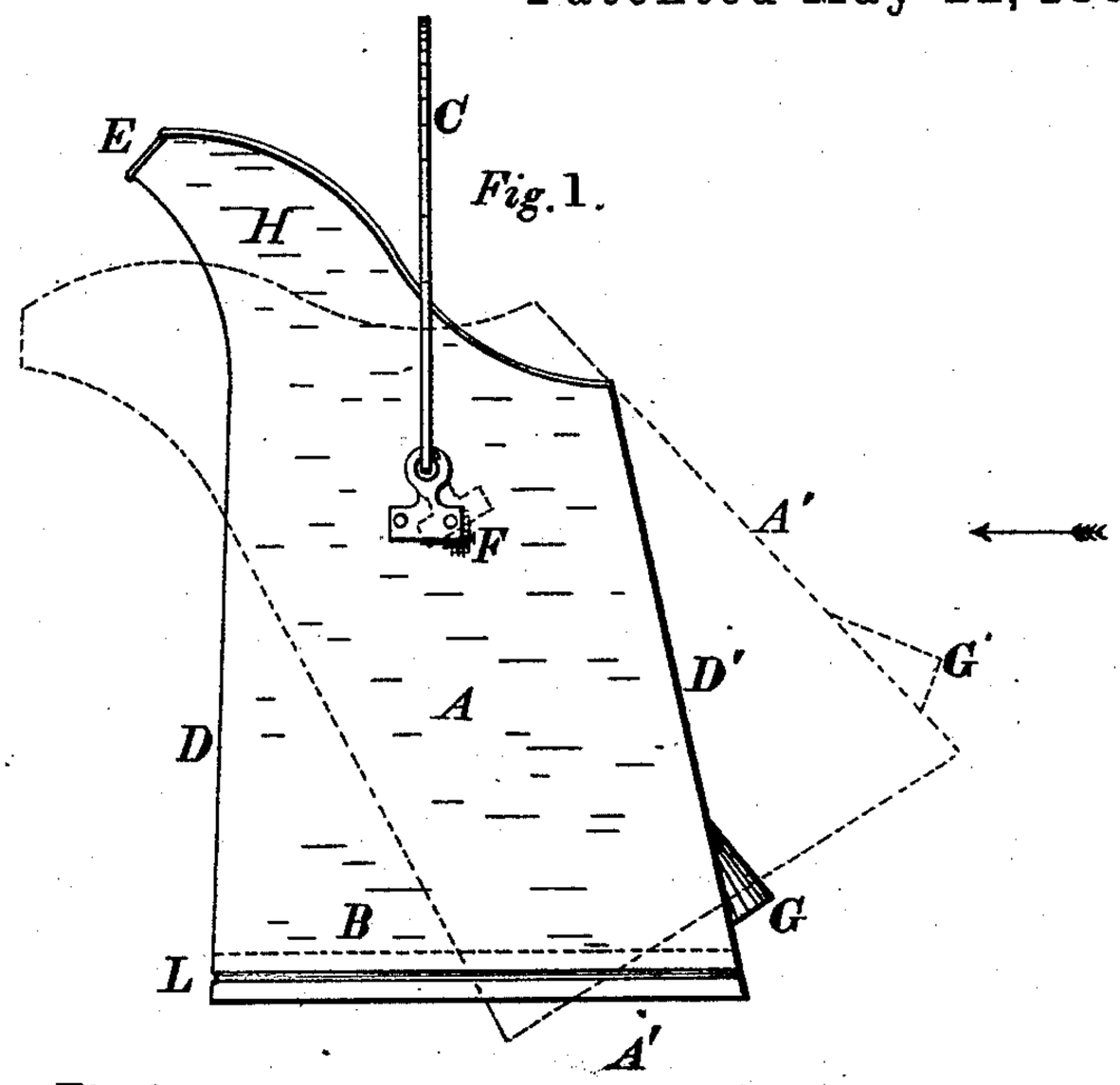
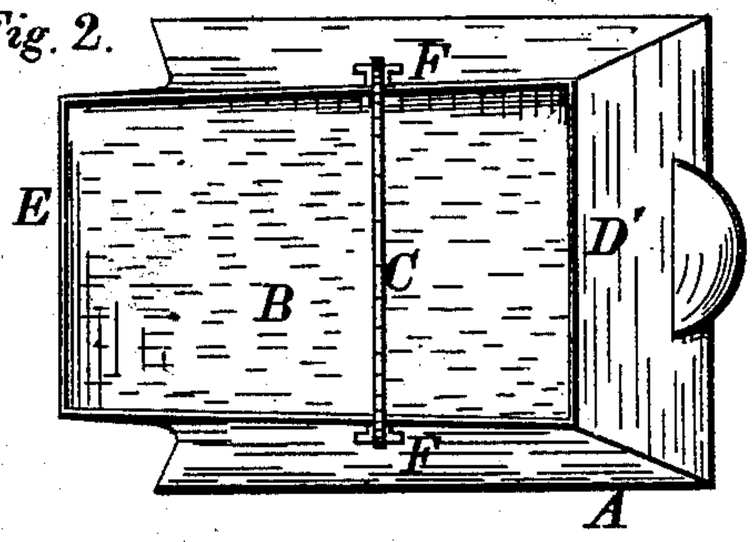


Fig. 1.

Fig. 2.



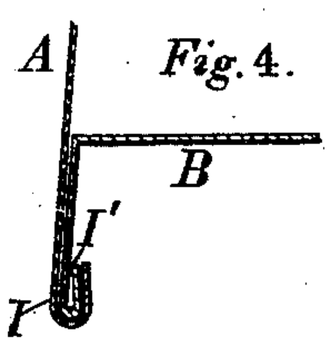


Fig. 4.

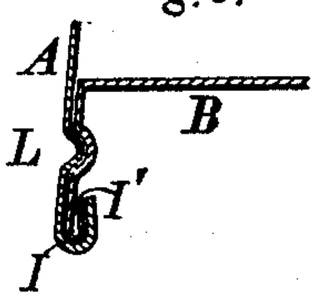


Fig. 5.

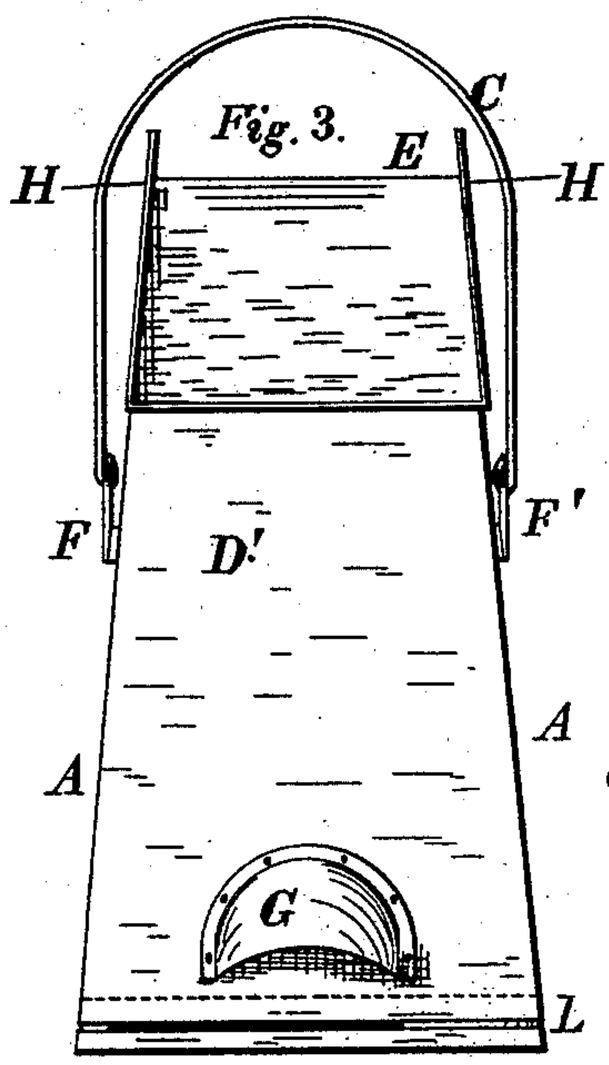


Fig. 3.

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UNITED STATES PATENT OFFICE.

EMIL G. LUSCHER, OF BERGEN, NEW YORK.

COAL-HOD.

SPECIFICATION forming part of Letters Patent No. 278,157, dated May 22, 1883.

Application filed March 24, 1883. (No model.)

To all whom it may concern:

Be it known that I, EMIL G. LUSCHER, of Bergen, Genesee county, New York, have invented an Improved Coal-Hod, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an improvement in coal-hods; and it consists in a peculiar form and relative arrangement of the parts forming the hod, all as hereinafter more fully described and specified.

My improved coal-hod is represented in the accompanying drawings, in which Figure 1 is an elevation. Fig. 2 is a plan view. Fig. 3 is an elevation, as seen when looking in the direction of the arrow in Fig. 1. Figs. 4 and 5 are a section of part of one of the sides and the bottom, showing the method of forming the joint.

In the accompanying drawings, representing my improved coal-hod, A A′ are the sides, D D′ the ends, B the bottom, C the bail, and E the spout. F F are ears or lugs riveted or otherwise secured to the opposite sides A A′ of the coal-hod for the attachment of the bail C.

My improved coal-hod is four-sided, being longer in the direction of the spout than in the transverse direction. The ends D D′ are inclined toward each other and from the vertical line, so that the size of the hod, as seen from one side, gradually diminishes from the bottom toward the top. On the end D, at the top, I provide a spout, E, from which the coal is delivered when the hod is swung on the bail C from the position shown in full lines, Fig. 1, to that indicated, approximately, by the dotted lines. The sides A A′ are also inclined toward each other, as represented in the end view, Fig. 3, and their upper portions, near and at each side of the spout, are extended upward at H, Fig. 1, to guide the coal, when the hod is emptied, out from the delivery-spout E.

My improved coal-hod is made of sheet metal, the upper edges being wired in the usual manner. The bottom of the hod is formed of a rectangular plate having its edges turned down parallel with the sides and ends of the hod, the lower edges of this flange and of the sides A A′ and ends D D′ being bent up on themselves, as represented in Fig. 4, after which a groove or channel, L, is formed in the metal plates below the bottom of the hod, thus forming a strong and easily-made joint, as shown in section in Fig. 5. Besides being cheaply made, this form of joint prevents any fine coal or dirt from sifting down between the bottom and the sides or ends, which commonly happens with coal-hods in which the bottom is secured by rivets. The lips H H of the spout E extend for a short distance above the point of discharge at the same inclination toward each other as the sides A A′, thus preventing the coal from being scattered in the operation of emptying the hod.

As shown in Figs. 1 and 3, I attach the bail of my improved coal-hod to the lugs F F′, fastened to the sides A A′ at some distance below the top of the hod, thus bringing the point of support much nearer to the center of gravity of the full hod than is done with the ordinary construction, thereby facilitating the operation of emptying the coal from the hod.

I claim—

The herein-described sheet-metal coal-hod, oblong in horizontal section, having its ends D D′ provided with spout E, inclined with reference to the vertical line and with reference to each other, and its sides A A′ provided with lips H H′ on each side of the spout, inclined toward each other from below upward, and provided with the bail C, attached to the sides A A′ by the lugs F F′, whereby the full hod is balanced and the coal properly guided during the operation of emptying the hod, substantially as and for the purposes set forth.

EMIL G. LUSCHER.

Witnesses:
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