No. 661,080. Patented Nov. 6, 1900.

H. B. SACKETT.

COAL SCREEN.

(Application filed Feb. 19, 1900.)

(No Model.)

Fig. 1.

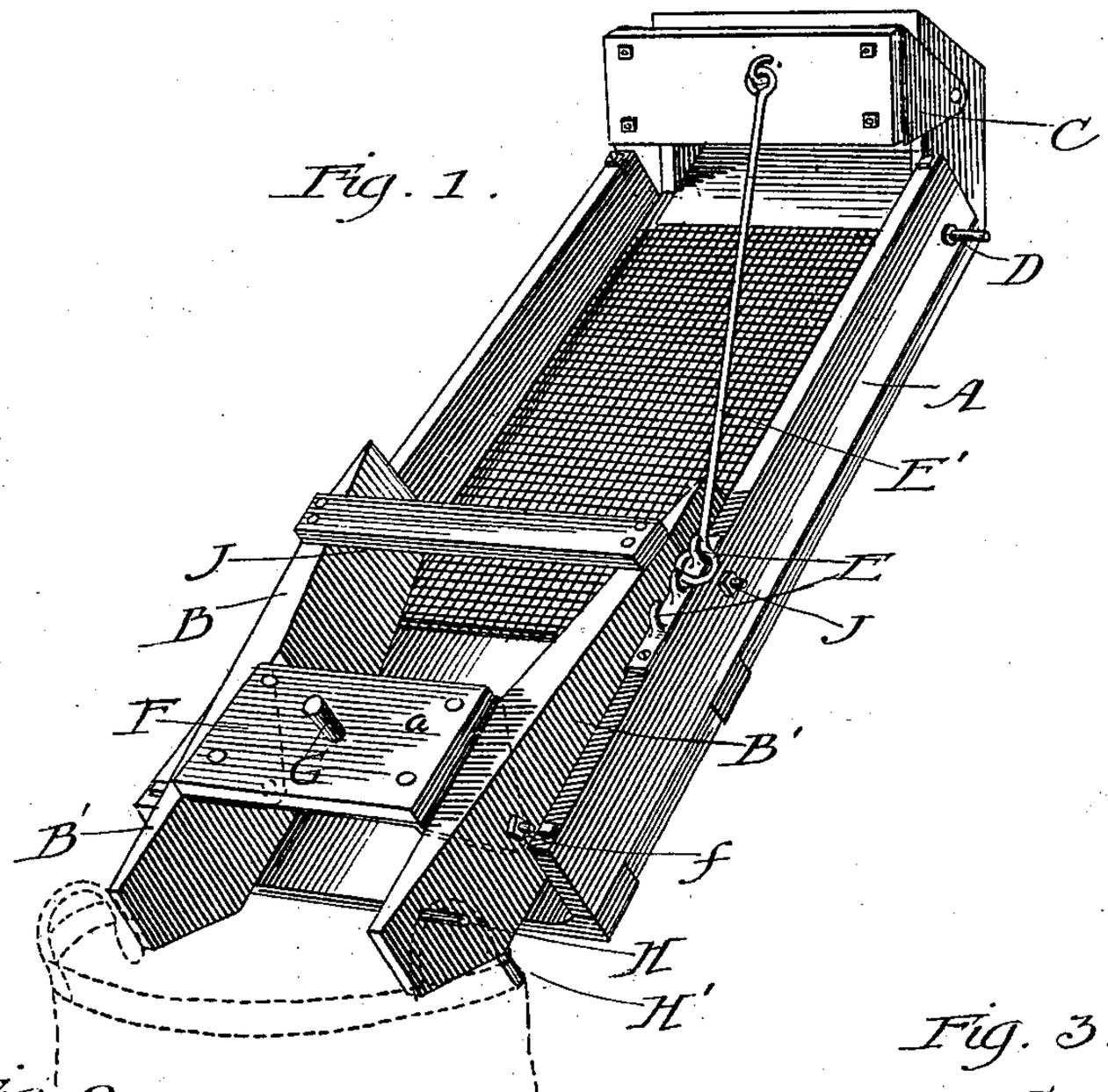


Fig. 2.

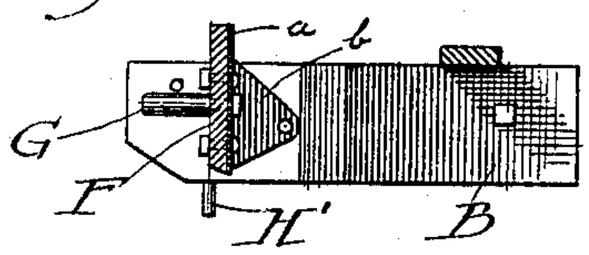


Fig. 3.

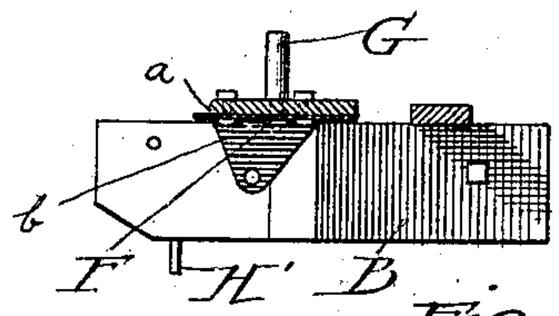
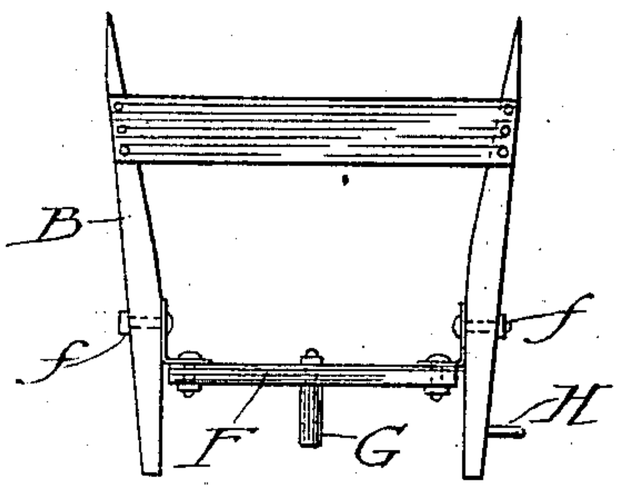
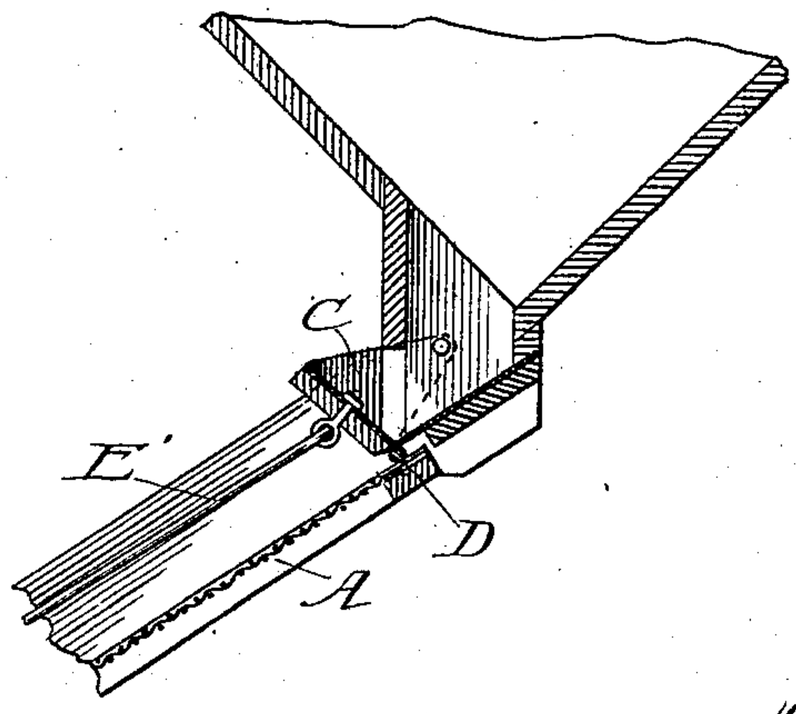


Fig. 5.

Fig. 4.





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UNITED STATES PATENT OFFICE.

HIRAM B. SACKETT, OF CHICAGO, ILLINOIS.

COAL-SCREEN.

SPECIFICATION forming part of Letters Patent No. 661,080, dated November 6, 1900.

Application filed February 19, 1900. Serial No. 5,801. (No model.)

To all whom it may concern:

Be it known that I, HIRAM B. SACKETT, a citizen of the United States, residing at Chicago, county of Cook, State of Illinois, have invented a new and useful Improvement in Coal-Screens, of which the following is a specification.

My invention relates to screens which are used in the transfer of coal from one receptacle to another, and particularly in the unloading of it from a bin or car into bags for retail delivery.

It consists of an ordinary open wire screen, but having a hopper at the upper end for regulating the flow of coal, and a chute at the lower end by which the coal is run into bags, and a cut-off in the chute for stopping the flow temporarily while the bags are being changed.

It further consists of details hereinafter more fully described, and particularly pointed out in the claims.

Figure 1 is a perspective view of my screen. Fig. 2 is a detail view of the bagging attachment in section, with the cut-off closed. Fig. 3 is a similar view with the cut-off open. Fig. 4 is a plan view of the bagging attachment, the cut-off being closed. Fig. 5 is a sectional view through the upper portion of the screen and hopper.

A represents the screen; B, the bagging attachment; C, the cut-off at the top; D, the rod the screen is pivoted upon; E, the hooks by which the opening of the cut-off C is regulated; F, the cut-off in the bagging attachment; G, the handle of F; H, the hooks which the bag is hung upon.

The operation of my invention is as follows: The coal is poured into the hopper at the top, its flow upon the screen being regulated by gate C, which may be set at different heights by means of the hooks E, which the rod E′ engages. If the coal is large or the flow is to be rapid, the gate will be raised, as shown in Fig. 1; but if it is a fine coal or a slow flow is required it will be lowered to one of the lower hooks. When the flow is to be stopped, it may be closed down entirely.

At the lower end of the screen a device for running the coal into bags is attached. It consists of a chute B, having restricted sides B′ B′, by which the coal is gathered together, and the cut-off F, pivoted in the sides, by which the flow is stopped here at the lower end when the bag is full and is being replaced by an empty bag. The bag hangs upon the hook H by one handle and the hook H′ spreads it at the rear edge. The other handle is held by the left hand of the operator, while his right holds the handle G of the cut-off.

The cut-off F is hung in the middle of the sides upon the bolts *f* in such a manner that the gate portion *a* swings about straight across the stream of coal, or it may be located closer to the bottom of the screen in order that the pressure of the coal above the point of suspension will have a tendency to close it, making the closing down of it an easy matter even while the coal is running through the chute rapidly. When the accumulation of coal at the chute becomes too great, the cut-off C at the top may be closed; but it is intended that the flow through this latter shall be just sufficient to fill the bags as fast as they can be put in place and removed by a single operator. This chute or bagger is bolted into the screen by the bolts J in the sides and may be put into any screen of about this size and pattern.

The angle of incline of the screen may be varied by swinging it upon the pivot D, which is designed to be set into a frame or bracket.

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

1. The herein-described coal-screen, consisting of the combination of the screen portion A, the regulating cut-off C, at the top thereof adapted to regulate the amount of coal flowing over the screen, the bagger B, removably attached to the lower end of the screen, the cut-off F, pivoted in said bagger, and means for holding the bag in place, all substantially as shown and described.

2. The herein-described coal-screen, consisting of the combination of the screen portion A, the regulating cut-off C, at the top thereof, adapted to regulate the amount of coal flowing over the screen, the bagger B, removably attached to the lower end of the screen, the cut-off F, pivoted in said bagger, and the hooks H, H′, in the end of the bagger for holding the bag in place, all substantially as shown and described.

3. The herein-described coal-screen, con-

sisting of the combination of the screen portion A, the regulating cut-off C at the top thereof, provided with the rod E′ and hooks E which said rod engages for regulating the height of said cut-off, the bagger B, secured to the lower end of said screen, and the cut-off F, pivoted to said bagger, all substantially as shown and described.

4. The herein-described coal-screen consisting of the combination of the screen portion A, the regulating cut-off C at the top thereof, the bagger B attached to the lower end, having the sides B′, setting within the sides of the screen, and the cut-off F pivoted on the sides of the bagger at a point about midway between top and bottom thereof all substantially as shown and described.

5. In a coal-screen, the herein-described bagger attached, consisting of the combination of the sides B′, approaching one another toward their lower ends, the cut-off F, pivoted in said sides, to swing directly across the path of the coal which passes through the bagger and means for securing said bagger in the screen, all substantially as shown and described.

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