(No Model.)

H. B. SACKETT.

COAL SCREEN.

No. 426,864. Patented Apr. 29, 1890.

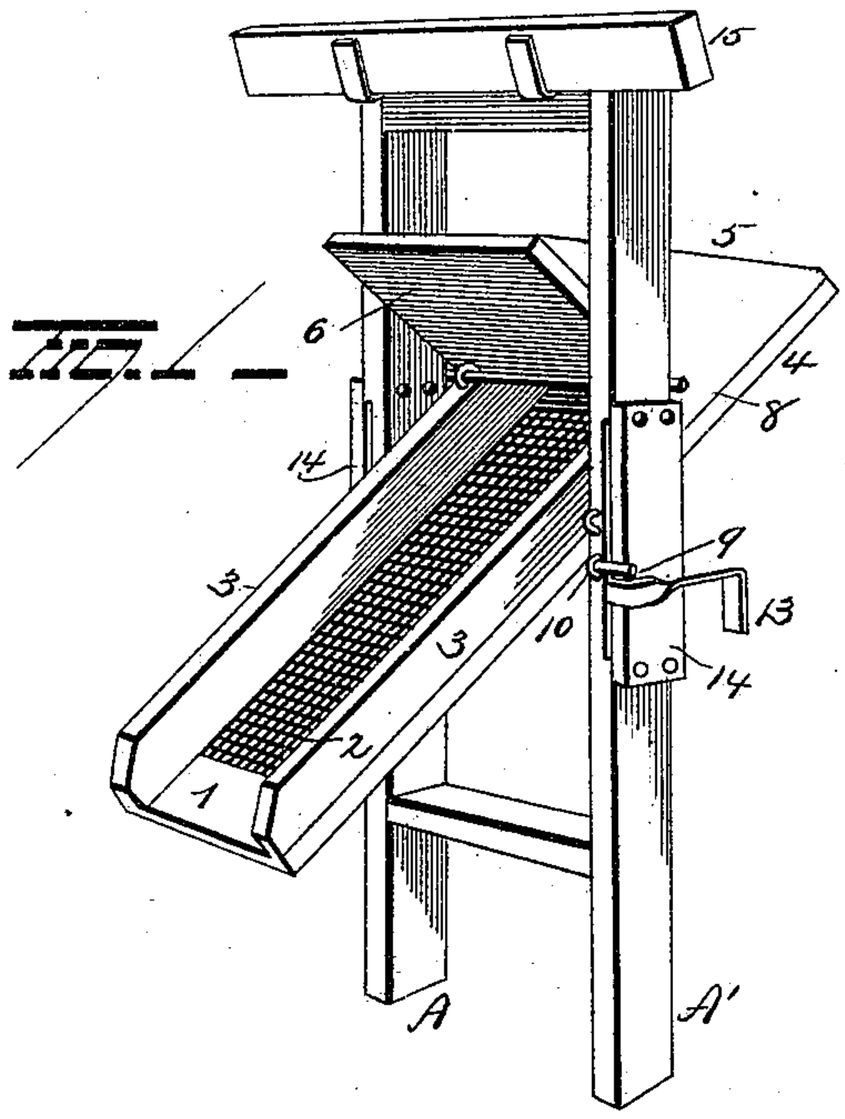

FIG. 1.

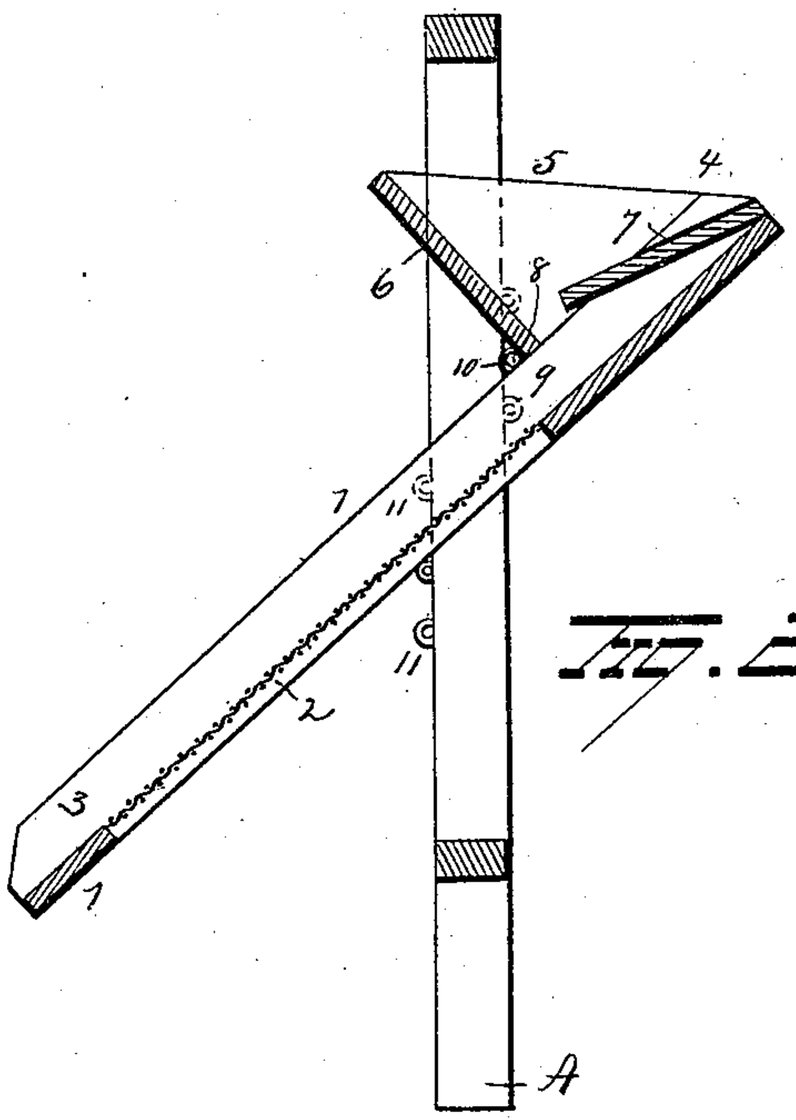

FIG. 2.

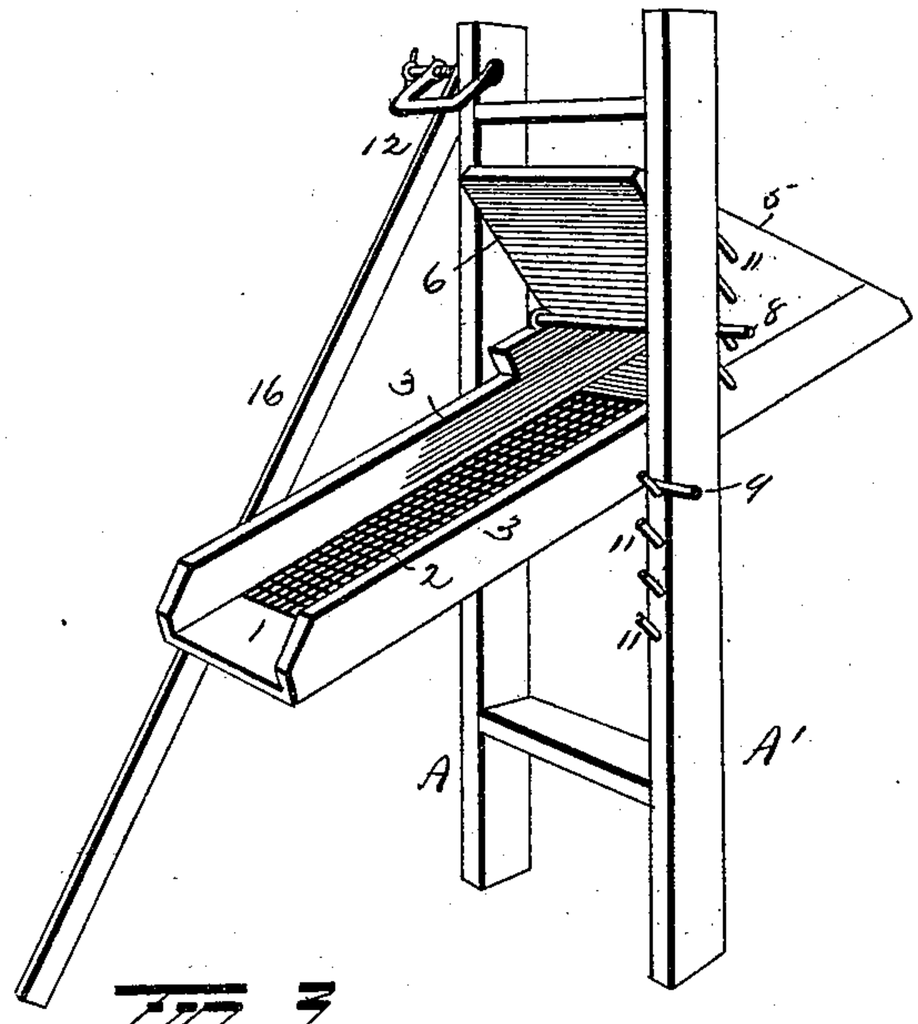

FIG. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

HIRAM B. SACKETT, OF COUNCIL BLUFFS, IOWA.

COAL-SCREEN.

SPECIFICATION forming part of Letters Patent No. 426,864, dated April 29, 1890.

Application filed January 23, 1890. Serial No. 337,811. (No model.)

To all whom it may concern:

Be it known that I, HIRAM B. SACKETT, a resident of Council Bluffs, in the county of Pottawattamie and State of Iowa, have invented certain new and useful Improvements in Coal-Screens; 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.

My invention relates to an improvement in coal-screens, the object being to save time and labor and provide a screen which will effectually clean the coal and separate it from the dust during its transfer from the car to a wagon or other place.

A further object is to provide for regulating the feed of the coal over the screen, to utilize the entire screen-surface, and to vary the inclination of the screen to suit the requirements of the occasion.

With these ends in view my invention consists in certain novel features of construction and combination of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective. Fig. 2 is a sectional view, and Fig. 3 is a modification.

A A′ represent a pair of uprights which are adapted to stand vertically upon the ground or be clamped or hooked in place to the side of a car or to the door of the car for the purpose of supporting the screen.

The screen 1 is of the usual form—that is, it has the sieve or woven-wire bottom 2 and the narrow sides 3 3 to confine the material during its downward course, so as to pass over the sieve. At the top a V-shaped hopper 4 is formed. This consists of the rigid V-shaped ends 5 5, the rigid front piece 6, secured to the ends and adapted to spread the coal as it is scooped into the hopper, so as to feed gradually and spread over the entire screen-surface. In addition to these parts a slide or movable board 7 constitutes the back of the hopper, and by sliding this in or out the size of opening is varied to regulate the feed of the contents of the hopper over the screen.

The screen is supported by a pair of rods 8 and 9, one above the sieve and the other below it, which are passed through loops or eyelets 10 10 on the screen and held at the ends in loops or eyelets 11 11 on the opposite edges of the uprights, or by pins or equivalent devices. As there are several of these eyelets or pins, those on the rear edge of the uprights extend above the center and those on the other side below the center, so that the rods not only hold the screen between the uprights, but the inclination of the screen is regulated by changing the rods to a higher or lower position.

The uprights may be held on the side of an ordinary platform-car by the use of ordinary clamps 12 12, or by means of the hooks 13, secured to the removable side strips 14 14, or they may be held in place by a cross-bar 15 at the top, or still in another way by means of a brace 16, clamped to the upper end of one of the uprights.

It is evident that slight changes might be made in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein set forth; but,

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with uprights, of a sieve and rods adapted to have connection with the sieve above and below and to be supported at their ends by devices arranged for them on the uprights, substantially as set forth.

2. The combination, with a pair of uprights and devices for supporting the uprights in vertical position, of a sieve having a V-shaped hopper at the upper end, a slide in the hopper, devices on the front and rear edges of the uprights, and rods which pass through said devices and are connected with the sieve for supporting the sieve and regulating its inclination, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HIRAM B. SACKETT.

Witnesses:
F. L. SACKETT,
F. I. DAY.