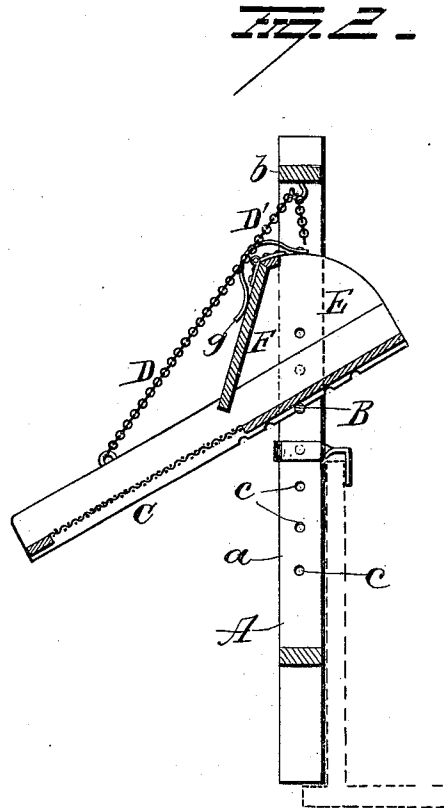
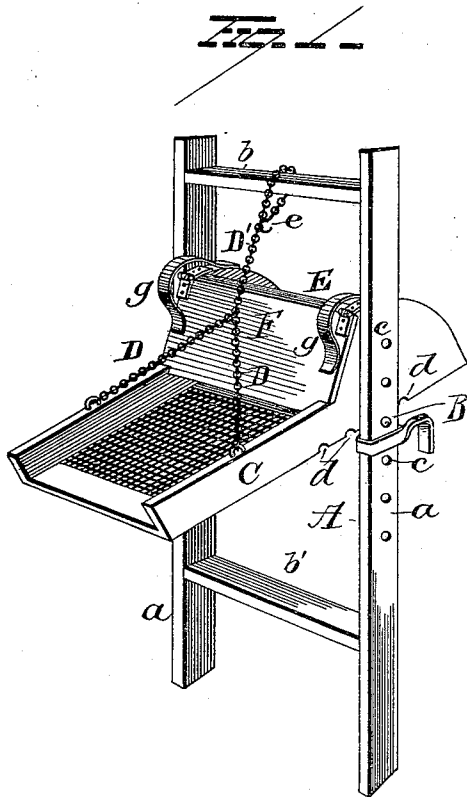


(No Model.)

H. B. SACKETT.
SCREEN.

No. 461,250.

Patented Oct. 13, 1891.



Witnesses.
S. A. Mayhew
G. F. Downing.

Inventor
Hiram B. Sackett
By H. A. Seymour
Attorney

UNITED STATES PATENT OFFICE.

HIRAM B. SACKETT, OF COUNCIL BLUFFS, IOWA.

SCREEN.

SPECIFICATION forming part of Letters Patent No. 461,250, dated October 13, 1891.

Application filed May 16, 1891. Serial No. 393,033. (No model.)

To all whom it may concern:

Be it known that I, HIRAM B. SACKETT, a citizen of Council Bluffs, in the county of Pottawattamie and State of Iowa, have invented certain new and useful Improvements in 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 screens, and more particularly to an improvement on the one disclosed in Letters Patent No. 426,864, granted to me April 29, 1890, the object of the invention being to construct the device in such manner that it can be readily adjusted to a car in close proximity to the side thereof, whereby coal, &c., may be loaded into a wagon and at the same time screened. A further object is to construct a screen in such manner that lumps of coal of large size may be permitted to pass through the hopper at the upper end thereof.

A further object is to produce a screen which may be adjusted at any desired elevation or inclination.

With these objects in view the invention consists in the combination, with a frame the uprights of which are provided with a series of perforations, of a screen, the frame of said screen having a series of recesses in its under side, and a rod adapted to pass through the perforations in the uprights and enter a recess in the screen-frame, whereby said sieve may be adjusted to different degrees of elevation and inclination; and the invention also consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view illustrating my improvements. Fig. 2 is a sectional view.

A represents a frame comprising uprights *a a* and cross bars or stays *b b'*. Each upright *a* is provided with a series of perforations *c* for the reception of a rod B, and by providing a series of perforations in each upright said rod may be located at any desired elevation. Located within the frame A is a screen C, the under edge of the frame of which

is provided with recesses *d* for the reception of the rod B. Thus it will be seen that the screen C rests on the rod B, and by providing the under edges of the side bars of the frame of the screen each with a series of recesses *d* the relation of the screen to the frame may be readily adjusted. In lieu of the recesses *d* a series of cleats or blocks may be secured to the under edges of the side bars of the screen-frame and the screen be supported on the rod B between said cleats or blocks. A chain D is secured at its ends to the side bars of the screen at points in proximity to the lower ends thereof, and to this chain another chain D' is secured, the free end of the last-mentioned chain being adapted to be thrown over the top cross-bar *b* of the frame or passed through a loop on said bar and provided at its free extremity with a hook *e*, which may be hooked into one of the links of the chain D'. By this means the lower end of the screen will be supported and the inclination of the screen may be readily adjusted.

At the upper end of the screen a hopper E is located, said hopper being provided with a hinged top or gate F, and the free end of said hinged gate adapted to normally rest on the side bars of the screen. In order to maintain the hinged gate in its normal position springs *g* may be provided, one end of each of said springs being secured to the sides of the hopper and the other ends made to bear on said hinged gate. From this construction it will be seen that when the screen is employed for screening coal, the lumps of which are of varying sizes, the smaller lumps will readily pass through the hopper and under the free edge of the hinged gate; but when large lumps of coal are placed in the hopper their weight in descending the screen will force the hinged gate up, and consequently they will be permitted to pass through the hopper.

With the device constructed and arranged as above set forth, when it is desired to use it on a railroad-car for screening coal as it is removed therefrom, the device may be located in close proximity to the car, the frame being connected to the car by means of suitable clamps. The screen may be adjusted at any desired elevation, so that when used on a flat-car it may be adjusted close to the top edge

of the side thereof, and the screen may be readily and quickly adjusted to any desired degree of inclination.

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

1. The combination, with a frame each of the uprights of which is provided with a series of perforations, of a screen, the side bars of said screen being provided with a series of recesses, and a rod adapted to enter the perforations of the side bars of the frame and receive the recesses of the screen-frame, substantially as set forth.

2. The combination, with a frame, of a rod adjustably connected thereto, a screen provided with a series of recesses, whereby it is adjustably located on said rod, and a connection between the screen and the frame, where-

by to support the lower end of the frame and adjust the inclination thereof, substantially as set forth.

3. The combination, with a frame, of a rod adjustably connected to the side bars thereof, a screen provided with a series of recesses, whereby it is adjustably located on said rod, a chain or cord connected at its ends to the side bars of the screen, and another chain or cord connecting the first-mentioned chain or cord with the upper cross-bar of the frame, substantially as set forth.

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

HIRAM B. SACKETT.

Witnesses:

J. J. HESS,

S. S. SACKETT.