(No Model.)

G. W. WAITT.

ORE SCREEN.

No. 264,585. Patented Sept. 19, 1882.

Fig. 1

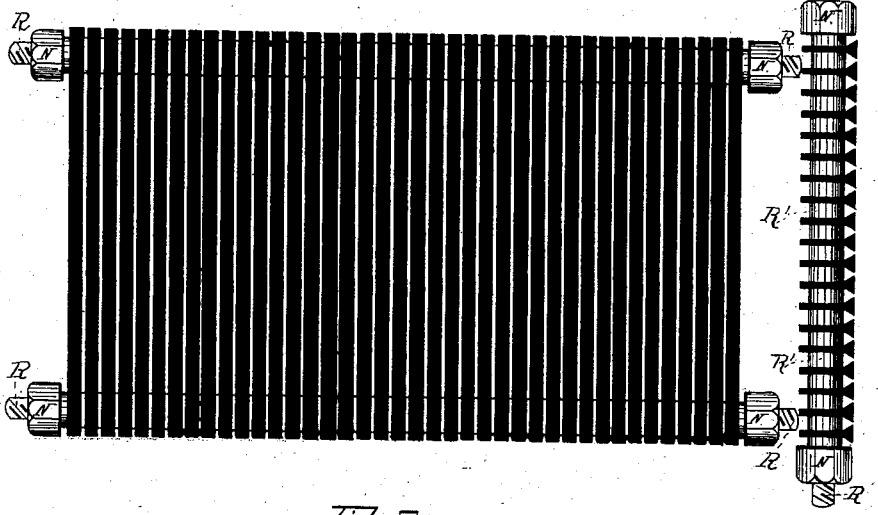


Fig. 7

Fig. 2

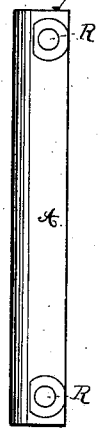


Fig. 3

Fig. 4

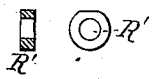


Fig. 5

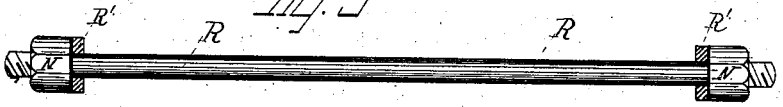
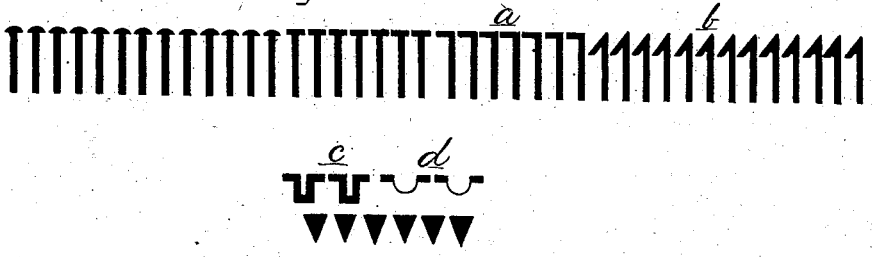


Fig. 6



WITNESSES

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GEORGE W. WAITT, OF CAMDEN, NEW JERSEY.

ORE-SCREEN.

SPECIFICATION forming part of Letters Patent No. 264,585, dated September 19, 1882.

Application filed October 17, 1881. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. WAITT, of Camden, in the county of Camden, State of New Jersey, have invented a new and useful Improvement in Ore-Screens, of which the following is a specification.

My invention relates to an improved ore-screen, such as is used in stamp-batteries and other devices and machines in which pulverized ore is subjected to a screening operation, and will be understood as hereinafter set forth and claimed.

The accompanying drawings form a part of this specification and illustrate the invention.

Figure 1 is a plan view of a screen. Fig. 2 is a side view of one of the screen plates or bars, showing the holes through which the binding-rods pass. Fig. 3 is a sectional view of a series of screen-bars having A-shaped heads. Fig. 4 shows a side view and transverse section of one of the spacing-washers. Fig. 5 shows one of the binding-rods and nuts. Fig. 6 shows a number of bars having differently-shaped heads, but all broadened. Fig. 7 is an elevation of one side of a screen, showing it completely equipped.

Similar letters of reference indicate corresponding parts in all the figures.

A shows the screen plates or bars. They are provided with broadened heads, as shown, and near each end have a hole formed in the body to receive the rods R, on which they are strung. Spacing-washers R′, formed, as shown in Fig. 4, with a flat space on top, are interposed between each pair of plates. The rods R pass through these washers also, and at either end the rods are screw-threaded and provided with a tightening-nut, N, which, when screwed up, bind the bars and spacing-washers securely together. The broadened heads of my bars A are formed of the same width the entire lengths of the bars, and the bars are so mounted that the spaces between them shall be the same. This way of mounting bars is the usual one; but T-headed bars heretofore in use have had the heads tapered, being broader at one end than at the other, and consequently the spaces between them varied in width from one end to the other. V-shaped bars have also been set up in this way, so that the spaces shall be broader at one end than at the other.

In ore-screens it is necessary that the bars retain their exact positions, and I am not aware that separately-formed broad-headed bars have been mounted to attain this end, combined with equidistant spacing.

Several forms of broad-headed bars, *a*, *b*, *c*, and *d*, are shown in Fig. 6.

Having thus described my invention, what I desire to secure by Letters Patent is—

The screen herein described, consisting of broad-headed bars, the heads whereof are of the same width from end to end, in combination with the supporting-bars, separating-washers, and tightening nuts and screws, substantially as set forth, whereby the said bars are mounted to maintain a uniform distance apart across the screen.

In testimony that I claim the foregoing I have hereto set my hand this 7th day of October, A. D. 1881.

GEORGE W. WAITT.

Witnesses:
CHARLES F. JONES,
I. S. BACON.