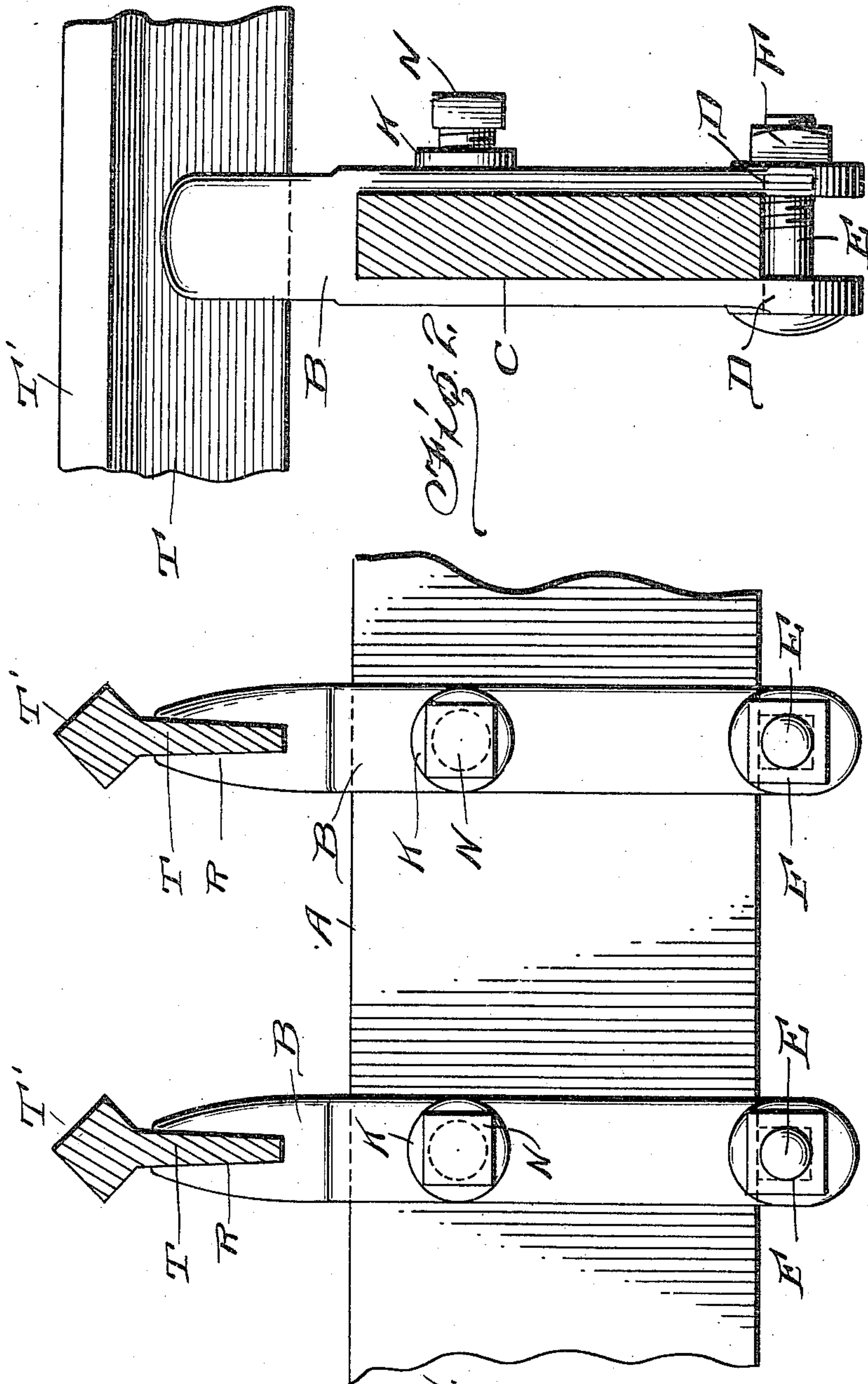


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ADJUSTABLE SCREEN BAR HOLDER.  
APPLICATION FILED NOV. 26, 1910.

985,558.

Patented Feb. 28, 1911.



Witnesses  
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# UNITED STATES PATENT OFFICE.

GARLAND TODD THAYER, OF CHARLESTON, WEST VIRGINIA.

ADJUSTABLE SCREEN-BAR HOLDER.

985,558.

Specification of Letters Patent.

Patented Feb. 28, 1911.

Application filed November 26, 1910. Serial No. 594,320.

*To all whom it may concern:*

Be it known that I, GARLAND T. THAYER, a citizen of the United States, residing at Charleston, in the county of Kanawha and State of West Virginia, have invented certain new and useful Improvements in Adjustable Screen-Bar Holders; 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in adjustable screen bar holders for use upon coal screens.

Heretofore in the screening of coal by ordinary apparatus employed, the slotted bearing bars in which the tapering screen bars are fitted in various meshes are found to be objectionable for the reason that the coal in passing down over the screen will frequently catch or be hung up upon the cross bearing bars, thereby blocking up the screen. Another serious objection to the form of bearing bars now employed is that they serve as coal breakers by reason of their breaking up the lumps as they pass over the screen bars.

In order to avoid these objections, it is my purpose to provide malleable iron lugs which will serve to raise the screen bars a considerable distance above the cross bearing bars and which will prevent the coal from being broken and avoiding clogging of the screen.

The invention consists further in the provision of an adjustable member or double slotted lug upon the bearing bars and adapted to vary the mesh of the screen as may be desired, thus saving the expense and delay incident to putting in new bearing bars for different meshes desired.

My invention comprises various details of construction as will be hereinafter fully described and then specifically defined in the appended claim.

I illustrate my invention in the accompanying drawings, in which:—

Figure 1 is a plan view of a bearing bar showing the improved screen bar holders mounted thereon, the latter being shown in section, and Fig. 2 is a sectional elevation.

Reference now being had to the details of the drawings by letter, A designates a bearing bar of the usual type employed upon coal screening apparatus, and B, B designate screen bar holders, made preferably of malleable iron, and slotted longitudinally as at C for the reception of the bearing bar A. The walls of the slotted portion of the bar B are provided with registering apertures D for the reception of the bolt E which passes therethrough and a nut F is adapted to the bolt E, affording means for drawing or clamping the walls of the slot against the opposite faces of the bearing bar A. Bosses K project from the face of the bearing bar B and which are provided with threaded apertures extending through one wall of the slotted portion of the bar B, and N is a set screw engaging the threaded opening in the boss and adapted to engage the face of the bearing bar to hold the upper portion of the bar B securely in place. It will be noted that the upper end of each bar or lug B has a slot R designed to receive a screen bar T, having a tapering edge T'.

By the provision of the adjustable screen bar holders, it will be noted that the upper edges of the tapering screen bars will be held a sufficient distance above the upper edge of the bearing bar, thereby preventing coal breaking and clogging, while means are afforded for adjusting the mesh of the bars by moving the lugs nearer to or farther apart as may be desired to produce the required mesh, thereby avoiding delay and expense incident to putting in new bearing bars for different meshes of screens.

What I claim to be new is:—

In combination with the bearing plate of a screening apparatus, slotted screen holding bars straddling the bearing bar and resting thereon, the lower ends of the screen

holding bars having registering apertures,  
bolts passing therethrough and bearing  
against the under edge of the bearing bar,  
set screws mounted in a threaded aperture in  
5 each of the bearing bars, the upper end of  
each of the slotted bars being contracted  
and recessed, the walls of which recesses are  
slightly tapering, screen bars having taper-  
ing shank portions conforming to said re-

cesses and adapted to engage the inclined 10  
walls thereof.

In testimony whereof I hereunto affix my  
signature in the presence of two witnesses.

GARLAND TODD THAYER.

Witnesses:

LEWIS D. TRUSLOW,  
DEAN P. REED.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,  
Washington, D. C."

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