

No. 742,158.

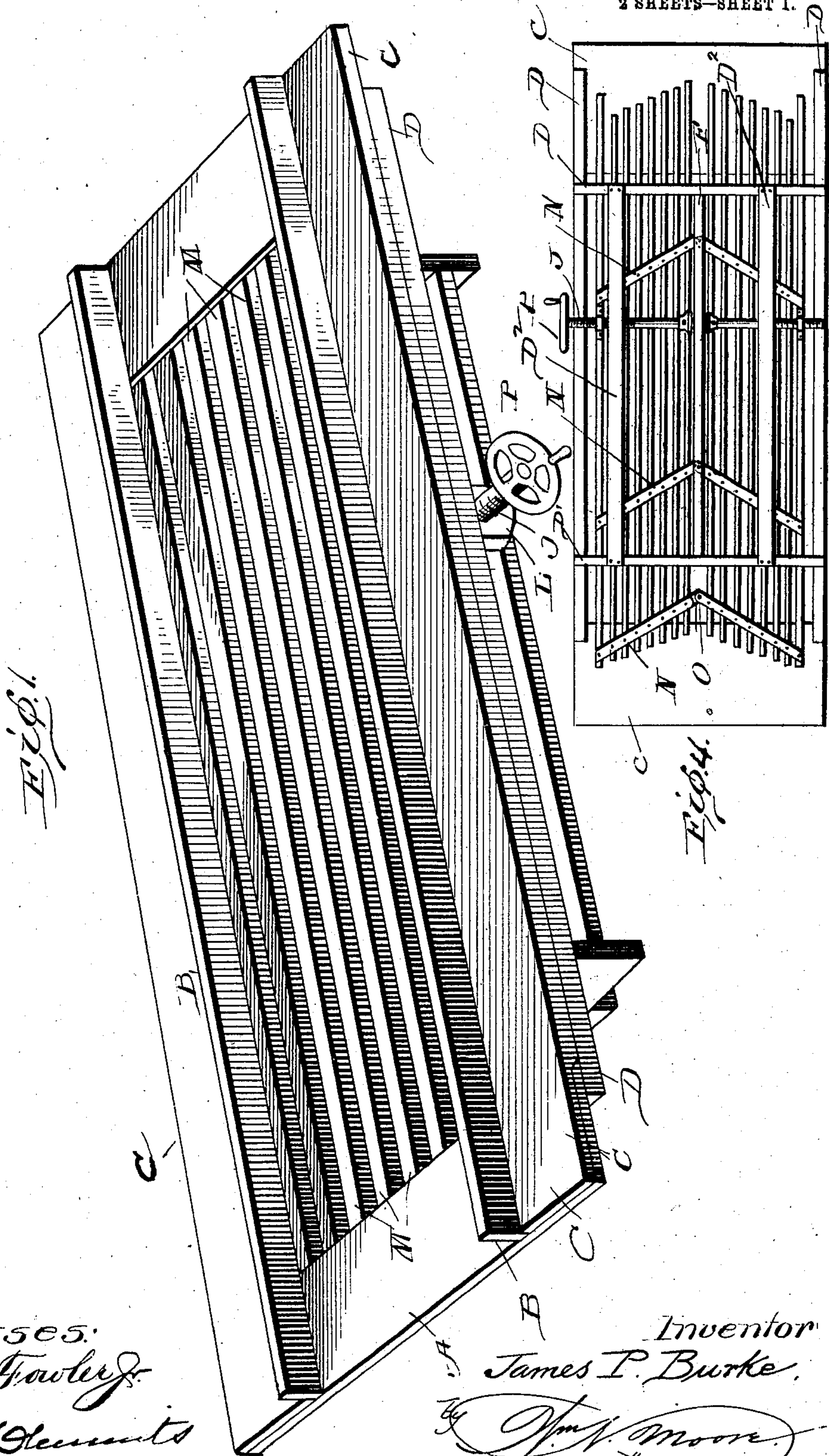
PATENTED OCT. 27, 1903.

J. P. BURKE.
COAL SCREEN.

APPLICATION FILED MAR. 21, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses:
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W. O. Clements

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2 SHEETS—SHEET 2.

Fig. 2.

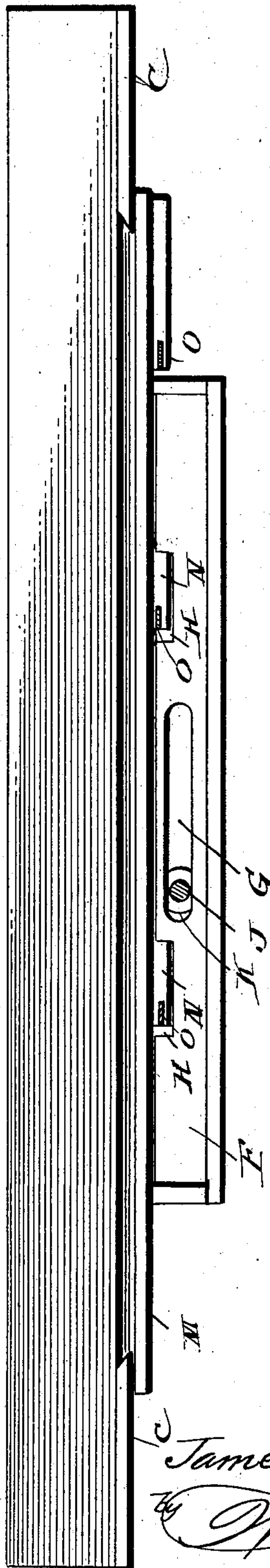


Fig. 3.



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UNITED STATES PATENT OFFICE.

JAMES P. BURKE, OF CORNWALL LANDING, NEW YORK, ASSIGNOR TO
AMERICAN COAL SCREEN COMPANY, A CORPORATION OF NEW
YORK.

COAL-SCREEN.

SPECIFICATION forming part of Letters Patent No. 742,158, dated October 27, 1903.

Application filed March 21, 1902. Serial No. 99,240. (No model.)

To all whom it may concern:

Be it known that I, JAMES P. BURKE, a citizen of the United States, residing at Cornwall Landing, in the county of Orange and State of New York, have invented certain new and useful Improvements in Coal-Screens, of which the following is a specification.

My invention relates to a screen, particularly one for screening coal; and my object is to provide a screen which is strong, durable, inexpensive and which can be easily and quickly adjusted for screening material—such, for instance, as coal of different sizes.

My invention will be pointed out in the claims.

In the drawings showing the preferred embodiment of my invention, Figure 1 shows a perspective view. Fig. 2 represents a side elevation, the adjusting-screw being in section. Fig. 3 represents modifications of the shape of the slats, and Fig. 4 is an inverted plan view of the complete device.

In the drawings, A B C D represent a frame provided with an opening in the same, underneath which opening are located the slats M, running parallel with each other and laterally adjustable to and from each other to increase or diminish the space between the same, so as to screen different sizes of coal. The two ribs B B represent parts of a coal-chute, and the coal running down this chute falls through the opening in the frame and between the slats. I preferably arrange these slats in two sets, one on one side of a central rib F and the other on the other side of said rib. This rib is fastened to the frame portions B' B². In order to hold the slats substantially parallel in their different adjusted positions, I provide one or more links N for each set of slats, which are pivoted to each slat and which consequently hold the slats parallel. I preferably provide two links for each set of slats, and I prefer to pivot each link to the central rib F.

In the construction illustrated in the drawings it is necessary in order to widen the space between the slats to move the sets of slats laterally apart. In order to do this, I have provided an adjusting-screw J, having reversely-arranged threads, as shown in Fig.

4, and a nut L, fastened to one of the slats of each set which mesh with the two screw-threads. The adjusting-screw preferably passes through a longitudinal slot G in the central rib F and is provided with stops K, fastened to the same on each side of said rib. By rotating the screw by the hand-wheel P in one direction or the other the slats will be moved apart or drawn together, one or other of the stops K striking against the rib F and holding the adjusting-screw from movement longitudinally of itself, whereby each set of slats is adjusted equally. As the slats move apart or are drawn together the slats to which nuts L are connected are moved longitudinally of the slats, and consequently the screw J is also moved laterally of itself in the slot G. When I say that the screw is moved laterally of itself, I do not mean that each end of the screw must necessarily move or in the same direction; but this is the construction I prefer; nor do I limit myself to a construction in which both sets of slats move in the same direction during their adjustment.

I am aware that many variations from the above-described construction may be made without departing from the spirit of my invention as claimed, and I therefore do not limit myself to the constructions shown and described.

What I claim is—

1. In a screen in combination a frame, a plurality of laterally-adjustable slats, two or more links pivoted to the frame and extending across and pivoted to said slats and adapted to hold said slats substantially parallel in their different adjusted positions, a screw having a thread, and a nut connected with one of said slats and traveling on said thread, whereby a rotation of said screw causes said slats to be moved apart and said screw to be moved laterally of itself, said screw being provided with a pair of stops adapted to contact with a portion of said frame to prevent said screw from substantially traveling longitudinally of itself.

2. In a screen in combination a frame, a plurality of sets of laterally-adjustable slats, two or more links for each set pivoted to the frame and each extending across and pivoted

to each of said slats and adapted to hold said slats substantially parallel in their different adjusted positions, a screw having reversely-arranged threads one for each set of slats, a
5 nut connected with a slat of each set and traveling on said threads, whereby a rotation of said screw causes said slats to be moved apart and said screw to be moved laterally of itself.
10 3. In a screen in combination a frame, a plurality of sets of laterally-adjustable slats, two or more links for each set pivoted to the frame and extending across and pivoted to said slats and adapted to hold said slats sub-
15 stantially parallel in their different adjusted positions, a screw having reversely-arranged threads one for each set of slats, a nut connected with a slat of each set and traveling on said threads, whereby a rotation of said screw
20 causes said slats to be moved apart and said screw to be moved laterally of itself, said screw being provided with a pair of stops adapted to contact with a portion of said frame to prevent longitudinal movement of said
25 screw.
4. In a screen in combination a frame hav-

ing an opening and a rib underneath the same, a plurality of sets of laterally - adjustable slats located underneath said opening and on either side of said rib, two or more links for 30 each set pivoted to said rib between said sets and extending across and pivoted to said slats, said links sloping toward each other in a V and adapted to hold said slats substantially parallel in their different adjusted po- 35 sitions, a screw having reversely-arranged threads, one for each set of slats, extending through a longitudinal slot in said rib, a nut connected with a slat of each set and travel- 40 ing on said threads, whereby a rotation of said screw causes said slats to be moved apart and said sets of slats moved longitudinally in the same direction and said screw to be bodily moved laterally of itself, and a stop 45 on said screw on each side of said rib to prevent longitudinal movement of said screw.

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

JAMES P. BURKE.

Witnesses:

JOS. W. CUMMIN,

CLAUDE MOREHOUSE.