

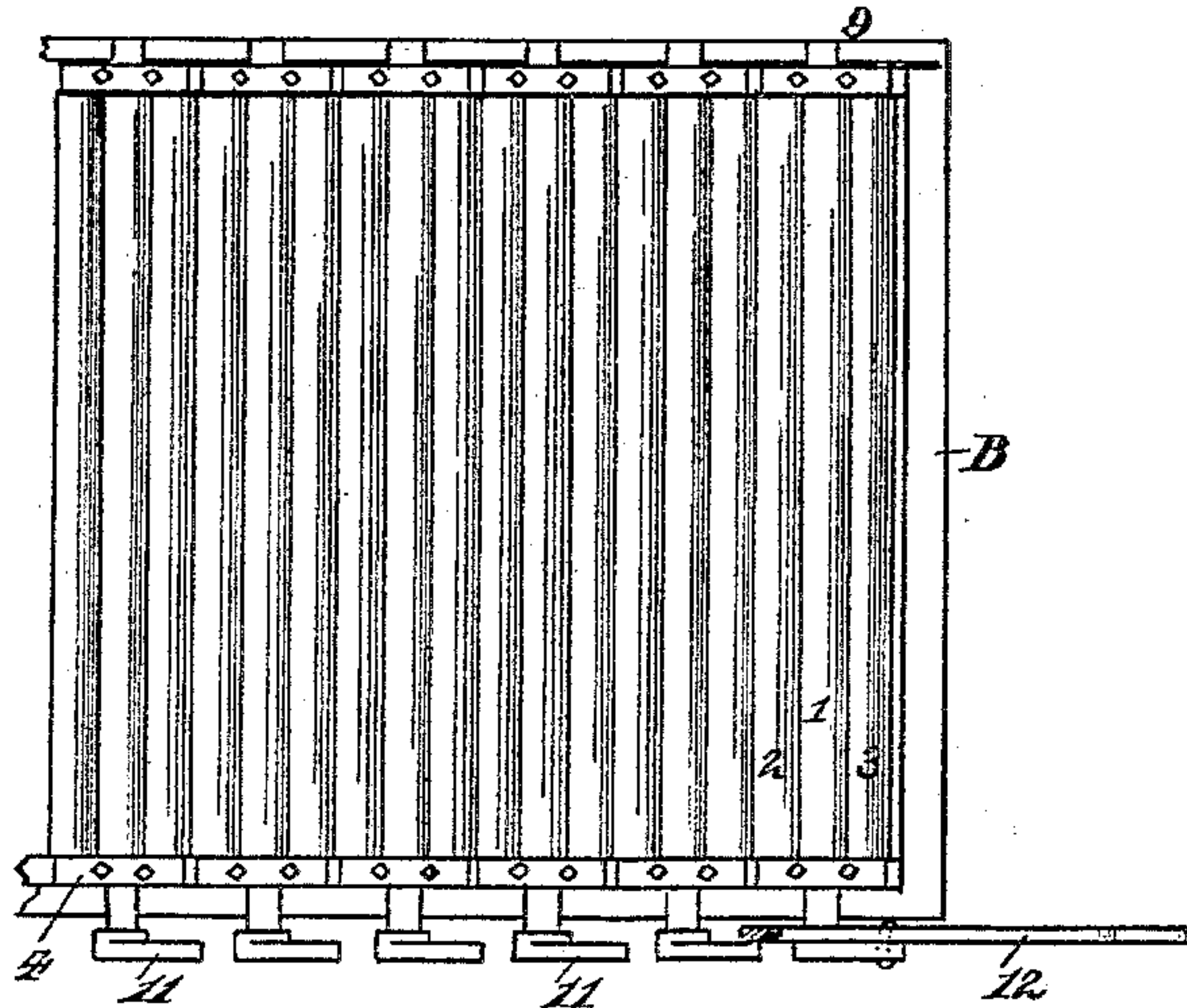
(No Model.)

E. EVANS.  
LOCOMOTIVE ASH PAN.

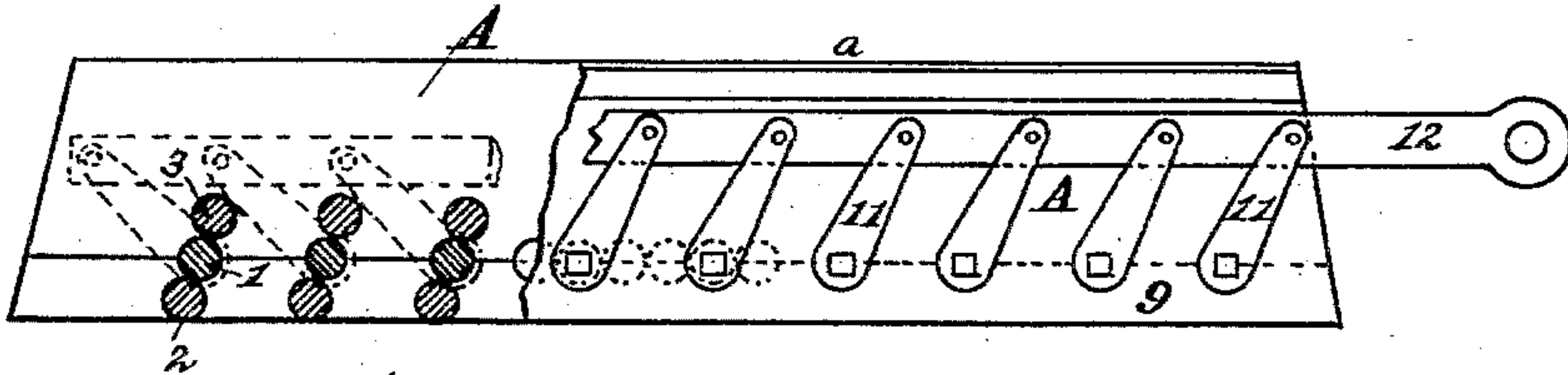
No. 359,923.

Patented Mar. 22, 1887.

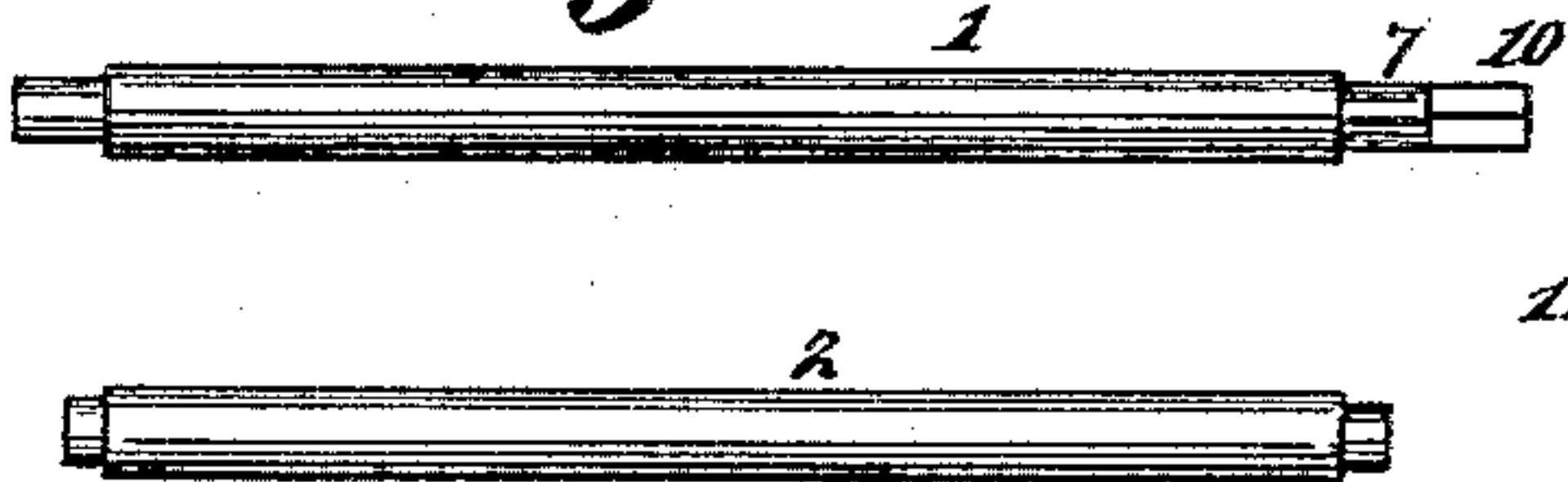
*Fig. 1.*



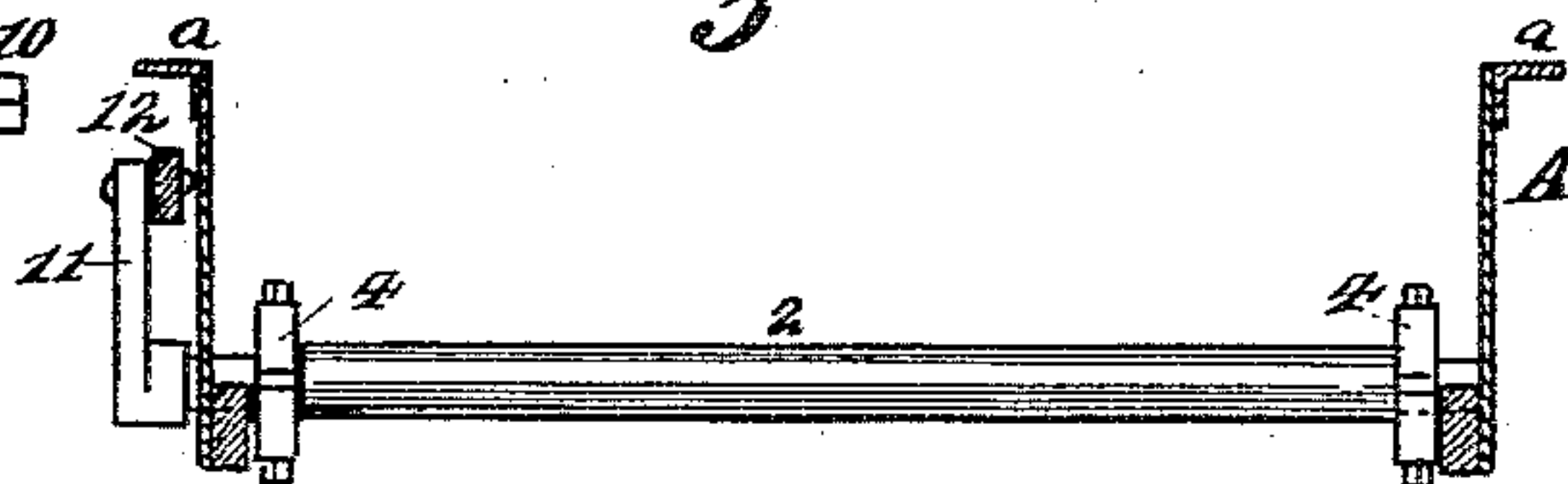
*Fig. 2.*



*Fig. 4.*



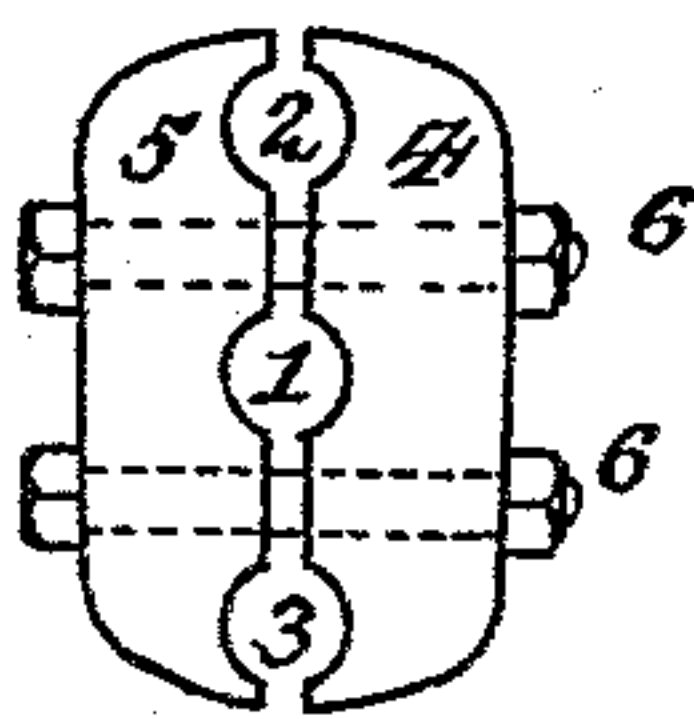
*Fig. 3.*



*Fig. 5.*



*Fig. 6.*



*Attest*

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# UNITED STATES PATENT OFFICE.

EDWARD EVANS, OF CHILLICOTHE, OHIO.

## LOCOMOTIVE ASH-PAN.

SPECIFICATION forming part of Letters Patent No. 359,923, dated March 22, 1887.

Application filed July 19, 1886. Serial No. 203,423. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD EVANS, a resident of Chillicothe, in the county of Ross and State of Ohio, have invented certain new and useful Improvements in Locomotive Ash-Pans, of which the following is a specification.

My invention relates to the construction of dumping-bars for ash-pans.

The accompanying drawings show my invention adapted to be used with the ash-pan of a locomotive; but they may be used as cinder or ash dumping devices for furnaces of various descriptions.

The object of my invention is to provide ready means for dumping ashes and cinders.

Another object of my invention is to prevent the ash-bars from heating or being burned off, which is accomplished by making them hollow or tubular, all of which will be set forth in the description of the accompanying drawings, making a part of this specification, in which—

Figure 1 is a plan view of my improvement applied to an ash-pan. Fig. 2 is a side elevation, partly in section. Fig. 3 is a transverse section. Fig. 4 is a detail view of the tubular ash-bars. Fig. 5 is an elevation of the frame on which the bars are journaled. Fig. 6 is an end view of the clamping-frame which unites the series of dumping-bars to a common center.

A represents the side of the ash-pan. B represents one end of the same; *a*, the top of the ash-pan.

The bottom of the ash pan is composed of a series of hollow bars, 1 2 3, which are united and held together by collars 4 5 and through-bolts 6. The central bar, 1, projects through the supporting-frame a sufficient distance to form a journal, 7, which rests in the groove 8 in the supporting-frame.

10 represents a socket on the outer ends of the bars 1; 11, a crank-arm pivoted thereon and pivoted to a pull-bar, 12, as shown in Fig. 2.

The side A of the ash-pan is provided with a series of semicircular openings, the counterpart of the openings 8, Fig. 5, so as to provide an orifice for the journal 7. I have shown nine series of these hollow bars 1 2 3, each provided with a journaling crank-arm attached to the pull-bar 12. By dotted lines, Fig. 2, I have shown three of these series, and the pull-bar in position for locking the said

series of bars to allow the cinders and ashes to fall out between them. The full lines, Fig. 2, show them in their normal position. These bars 1 2 3 being hollow, form air-flues, through which a current of air passes, which keeps the same cool. At the same time they are light and strong, easily dumped without any danger of their sticking or becoming displaced.

When the operator wishes to dump ashes or cinders, pull-bar 12 is pushed forward to turn the crank-bar 11 into position shown by dotted lines, Fig. 2. Thus the ashes and cinders are quickly and easily dumped. Pull-bar 12 is pulled back to throw them into normal position. The frame-piece 9 is duplicated on each side of the ash-pan, and the collars 4 5 are likewise duplicated upon each end.

The construction of my dumping-bars is very cheap, simple, and durable, and superior to any hitherto employed for that purpose.

Having described my invention, what I claim as new is—

1. A series of two or more dumping-bars united together and journaled upon a central one, the series being connected to crank-arms simultaneously operating said series to dump the ashes, substantially as specified.

2. A series of two or more hollow ash-bars, 1 2 3, coupled together and journaled upon a frame forming the bottom of an ash-pan, with lever-connections for raising and lowering the series to dump the ashes, substantially as specified.

3. In combination with an ash-box, a series of bars, 1 2 3, coupled together and journaled upon the base of the ash-box, each series being provided with crank-arms, which are hinged to a common pull-bar for simultaneously operating the series, substantially as specified.

4. In combination with an ash box, a series of hollow ash-bars, 1 2 3, coupled together and journaled upon the base of the ash-box, each series being provided with crank-arms, which are hinged to a common pull-bar for simultaneously operating the series, substantially as specified.

In testimony whereof I have hereunto set my hand.

EDWARD EVANS.

Witnesses:

MAT. H. WATT,  
W. JOE ATWELL.