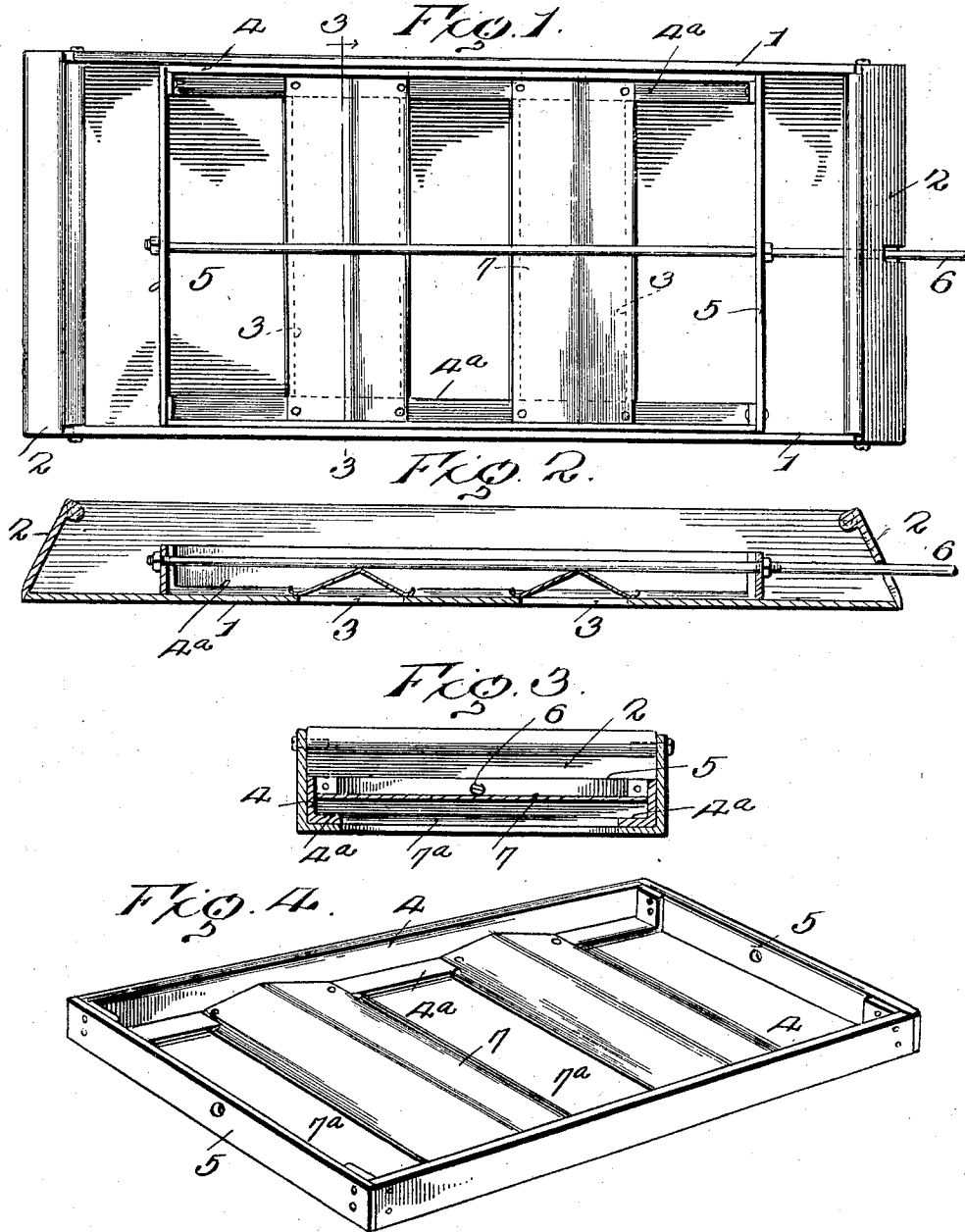


H. S. LLOYD.
ASH PAN.

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967,944.

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Witnesses
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UNITED STATES PATENT OFFICE.

HARRY S. LLOYD, OF ALTON PARK, TENNESSEE, ASSIGNOR OF ONE-HALF TO HENRY L. LAMB, OF TROY, NEW YORK.

ASH-PAN.

967,944.

Specification of Letters Patent. Patented Aug. 23, 1910.

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To all whom it may concern:

Be it known that I, HARRY S. LLOYD, citizen of the United States, residing at Alton Park, in the county of Hamilton and State of Tennessee, have invented certain new and useful Improvements in Ash-Pans, of which the following is a specification.

This invention comprehends certain new and useful improvements in ash pans for locomotive boiler furnaces and relates particularly to that class of ash pans that are provided with a hoe designed to cover an opening or openings formed in the bottom of the ash pan and arranged to be moved to uncover said openings at the desired time so as to dump the ashes.

My invention has for its primary object an improved ash pan of this character which may be very cheaply manufactured and which will be simple and durable in construction as well as efficient in operation and the invention consists in certain constructions and arrangements of the parts that I shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a top plan view of an ash pan constructed in accordance with my invention; Fig. 2 is a longitudinal sectional view thereof; Fig. 3 is a transverse sectional view on the line 3—3 of Fig. 1; and, Fig. 4 is a perspective view of the hoe employed.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

In carrying out my invention I may employ any ordinary locomotive boiler furnace ash pan now in use such as that designated 1, provided at its ends with the usual hinged dampers 2, by cutting openings 3 in the bottom of said pan, or I may manifestly construct the pan 1 in any desired way with the openings 3 initially formed therein. Any desired number of these openings 3 may be used, the same being two in number in the present instance and preferably extending practically from one side of the ash pan to the other.

The hoe of the pan embodies a preferably rectangular framework embodying sides 4 and ends 5 riveted or otherwise connected together in any desired way, the sides 4

being preferably constructed of angle iron and the ends 5 either of angle iron or flat bar, as desired. The said framework thus formed is mounted to fit snugly between the sides of the ash pan 1 and to rest on the bottom thereof, a rod 6 or any other desired device being secured to both ends of the framework in order to slide the same in one direction or the other upon the bottom of the ash pan. It is intended that this rod or its equivalent element be so arranged that it may be pulled upon or pushed in order to slide the hoe along the ash pan, without the necessity of the engineer or fireman leaving the deck of the engine, but as the exact arrangement of parts whereby this may be accomplished does not form part of the present invention, I have omitted to illustrate and specifically describe the same.

In addition to the framework before described, the hoe embodies two transversely extending plates 7 that are secured in longitudinal spaced relation to each other within the framework and that extend from side to side thereof, being supported at their ends upon the inwardly extending flanges 4^a of the sides 4 and riveted or otherwise secured thereto, as shown. Preferably, these plates 7 are oppositely beveled, as best illustrated in Figs. 2 and 4, so as to direct the ashes down between them or between each one of them and the adjacent end 5 of the framework, and each plate has its transversely extending edges extended downwardly a distance equal to the thickness of the flanges 4^a so as to engage the bottom of the ash pan.

From the foregoing description in connection with the accompanying drawings, it will be understood that in the practical operation of my improved ash pan, the normal position of the hoe is such as to cover the openings 3 with the plates 7. Whenever it is desired to dump the pan it is only necessary to move the hoe in one direction or the other along the bottom of the pan 1 so as to expose the openings 3, all ashes which fall within the framework 5 being discharged through said openings, while all of the ashes which fall between the ends 5 of the framework of the hoe and the adjoining ends of the ash pan being pushed out from underneath the dampers 2 which will be engaged by the ends 5 of the framework of the hoe and swung outwardly. In the preferred proportions of the parts, the

plates 7 are of a slightly greater width than the openings 3, so that the plates may serve to cover said openings even though the hoe should not be accurately positioned within
5 the pan.

Having thus described the invention, what is claimed as new is:

10 The herein described ash pan hoe consisting of a rectangular framework embodying metallic strips set on edge, the strips being connected together at their ends, and the side strips being formed with inwardly extending flanges, and spaced transversely extending plates mounted in the framework,

the plates being secured at their ends and 15 resting upon said flanges, and being spaced from the vertical end strips of the framework, the transverse edges of the plates being continued downwardly a distance equal to the thickness of the flanges the 20 plates being oppositely beveled, as and for the purpose set forth.

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

HARRY S. LLOYD. [L. s.]

Witnesses:

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