

(No Model.)

H. B. KEIPER.
DISHED FORGE PAN.

No. 423,168.

Patented Mar. 11, 1890.

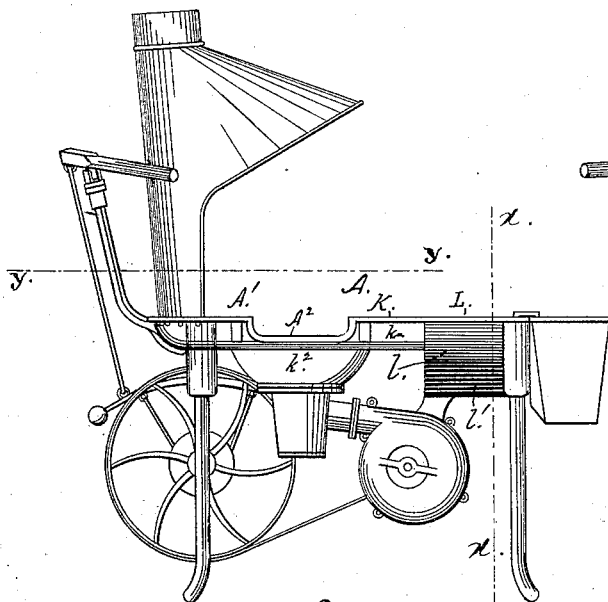


Fig. 1.

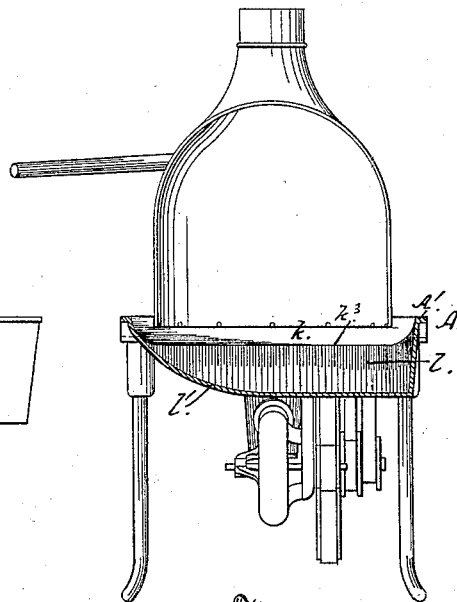


Fig. 2.

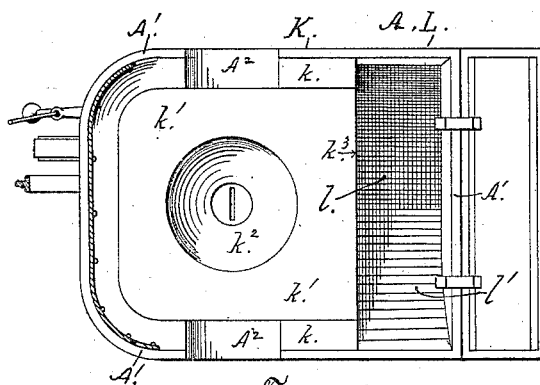


Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

HENRY BRINSER KEIPER, OF LANCASTER, PENNSYLVANIA.

DISHED FORGE-PAN.

SPECIFICATION forming part of Letters Patent No. 423,168, dated March 11, 1890.

Application filed August 22, 1889. Serial No. 321,690. (No model.)

To all whom it may concern:

Be it known that I, HENRY BRINSER KEIPER, a citizen of the United States, residing at Lancaster, in the county of Lancaster and State of Pennsylvania, have invented certain new and useful Improvements in Dished Bed-Plates or Forge-Pans for Blacksmiths' Forges; 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.

My invention relates to improvements in blacksmiths' forges in which the dished bed-plate, or "forge-pan," as it is known to the trade, is provided with a coal-bin or fuel-receptacle depressed below the level of the bottom of said pan and forming an integral part thereof adapted to hold a sufficient supply of coal, allowing said coal to be moistened from time to time at the pleasure of the operator, keeping the water used from spreading over the pan-bottom and from entering the fire-basin, to the detriment of the fire placed therein, and at the same time keeping the forge-pan free and unencumbered, to the great convenience of the operator in the manipulation of large forgings. This coal-bin is provided with a sloping bottom, rendering the taking of coal therefrom an easy operation.

Forge-pans provided with coal-bins have been known to the trade for some time; but these bins have always been situated above the level of the pan-bottom and were not integral with it, and consisted in walls or partitions extending from the front to the rear sides of said pans, always encumbering this portion of the pans and being more or less in the way when heavy forgings have to be handled.

My invention is fully illustrated in the several views of the accompanying drawings, in which similar letters refer to similar parts.

Figure 1 is a full side elevation of a portable blacksmith forge as I make it; Fig. 2, a vertical cross-section through the line xx in Fig. 1, viewed from the right; and Fig. 3, a horizontal section through the line yy in Fig. 1, looking down.

A portable forge with all its parts in place as I construct it is clearly shown in Figs. 1, 2, and 3 of the drawings.

Since my invention relates only to the bed-plate or forge-pan, a description of that alone is deemed sufficient.

The dished bed-plate or forge-pan A, rectangular in form, the two rear angles rounded, as shown in Fig. 3, and surrounded by a bead or flanged rim A', having two side depressions A² and A², consists of two portions inside of said rim A'—viz., the fire portion K and the fuel portion L. These two portions K and L are each possessed of distinct functional elements. In the fire portion K, curving downward and inward from the rim A', to which it is joined, is the pan-wall k , receiving the side depressions A² and A², before mentioned. Joined to the pan-wall k and extending horizontally is the level pan-bottom k' , having recessed into it a circular and concaved fire-basin k^2 , showing through an orifice in its center the mouth of the tuyere. In the fuel portion L, from the line k^3 , which lies in the level of the pan-bottom k' , extending forward to the flanged rim A' and from rim to rim on the sides, being joined to said rim on three sides and to the level pan-bottom k' along the line k^3 , is a depressed rectangular recess l , having a bottom l' , sloping from a side, beginning at the rim of said pan, toward the center, as shown in Fig. 2, said recess l having the sloping bottom l' , constitutes my coal-bin or fuel-receptacle. This forge-pan A, as described, consisting of the two portions K and L, each having the respective functional elements, as described, is made entire, forming one piece of metal, either cast, forged, or pressed, or otherwise given the required shape.

It will be readily seen in Fig. 2 of the drawings that the coal-bin l , having the sloping bottom l' , lies entirely below the level of the pan-bottom k' ; that the sloping bottom l' renders the taking of fuel from the coal-bin l an easy operation, and that the water put on the coal to moisten it will be confined here and cannot spread over the pan-bottom k' or get into the fire-basin k^2 .

I have thus far shown the application of my forge-pan to portable forges only; but I do not, however, confine myself to this application alone, for, as may be readily seen, my forge-pan A is equally adapted to being used in stationary forges. Omitting the mounting

it on legs, as shown, it may be laid in masonry, as in the ordinary construction of forges of this class.

Having thus described my invention and set forth its advantages, what I do claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a blacksmith's forge, the forge-pan A, having the surrounding bead or flanged rim A', inside of said rim A' and joined to it the side wall *k*, receiving the side-rim depressions A² and A², the said side wall *k*, joined to the level pan-bottom *k'*, having recessed into it the circular and concaved fire-basin *k*², having through it the central orifice to receive the mouth of the tuyere, and joined to said bottom *k'* along the line *k*³, as described, extending forward and from side to side to the bead or flanged rim A', and joined to said rim A', the depressed recess *l*, as described, having the sloping bottom *l'*, as described, forming the coal-bin or fuel-receptacle, the said forge-pan A and all its contained elements, as described, made integrally or of one piece of metal and adapted to be mounted

on legs or laid in masonry, all substantially as set forth, and for the purpose described.

2. In a forge-pan, as described, having the bead or flanged rim A', with the side depressions A² and A² inside of said rim A', integrally joined to it and to each other, the portions K and L, each having the following distinct functional elements, to wit: the portion K, the side wall *k*, the level pan-bottom *k'*, the circular and concaved fire-basin *k*², having the central orifice for the mouth of the tuyere, and the portion L, the depressed rectangular recess *l*, having the sloping bottom *l'*, forming the coal-bin or fuel-receptacle below the level of the pan-bottom *k'*, all made integrally and of one piece of metal, and adapted to be mounted on legs, as shown, or laid in masonry, substantially as described, and for the purpose set forth.

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

HENRY BRINSER KEIPER.

Witnesses:

WM. L. DEEN,
CHAS. E. LONG.