

A. A. C. KLAUCKE.

Apparatus for Fire-Pitching Barrels.

110373

Fig. 1.

PATENTED DEC 20 1870

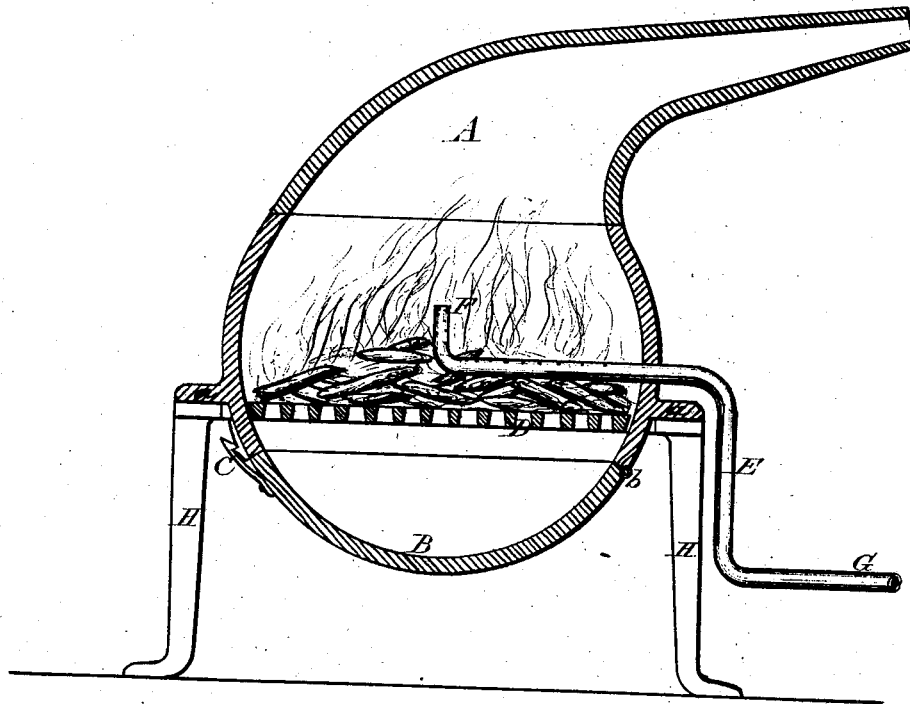


Fig. 2.

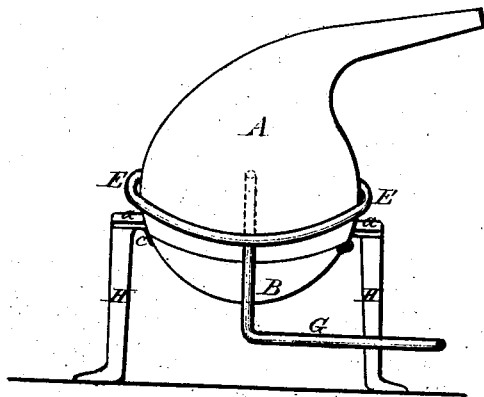
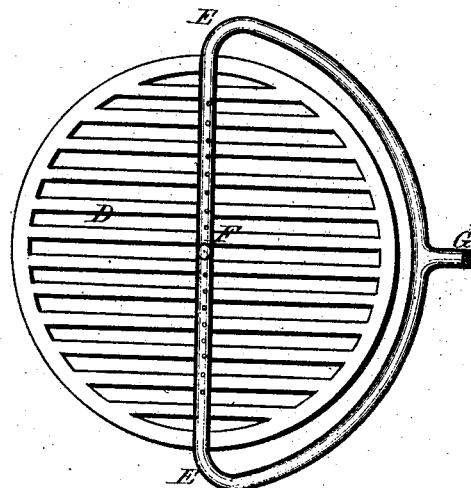


Fig. 3.



Witnesses:

W. Wagner  
W. Hamilton Johnson

Inventor:

Alex. A. C. Klaucke

# United States Patent Office.

ALEXANDER A. C. KLAUCKE, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR  
TO CHARLES F. SMITH AND HENRY C. COMEGYS, OF BALTIMORE, MARYLAND.

Letters Patent No. 110,373, dated December 20, 1870.

## IMPROVEMENT IN APPARATUS FOR PITCHING BARRELS.

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, ALEXANDER A. C. KLAUCKE, of the city of Washington, in the District of Columbia, have invented a new and useful Apparatus for Pitching Barrels; and I do hereby declare the following to be a full and correct description of the same sufficient to enable others skilled in the art to which my invention appertains to fully understand the same, reference being had to the accompanying drawing which makes part of this specification, and in which—

Figure 1 is a central longitudinal section of my improved apparatus;

Figure 2 is a perspective view of the same; and

Figure 3 is a detached view of part of the same.

Like letters of reference indicate like parts in the several figures.

My invention consists—

First, in hinging the entire lower part or bottom of the furnace so that it may constitute an ash-box, which can be instantly emptied whenever desired; and

Second, in the arrangement of the hot-air blast-pipe above the grate, so as to prevent ashes, cinders, &c., from being blown into the barrel to be pitched.

In the drawing—

A represents the furnace, the bottom B of which is hinged at *b*, and held in position by a spring catch, C, which latter, when released, will allow the bottom B to drop and swing on the hinge *b*.

The fire-grate D is arranged in the furnace just above the bottom B, so that, when the latter is dropped, a common poker may be introduced under the grate to rake the fire.

Instead of introducing the blast-pipe at the bottom of the furnace and under the grate, I introduce the same at the sides above the grate, one branch E of the pipe entering the furnace at each side and opposite each other.

These branches E unite at the center into one pipe, F, which rises upwardly at right angles to the branches E a short distance, so as not to extend above the flames of the fire.

The branches E and the pipe F are freely perfo-

rated, so that the blast may be exerted over the whole surface of the fire.

On the outside the branches E unite in the blow-pipe G, which may be connected to any suitable fan-blower.

I form flanges, *a*, on the outside of the furnace, at suitable distances from each other, which flanges or lugs have a dovetail groove on their under side, into which fit the dovetailed tops of legs H.

Three or four flanges or lugs, *a*, may thus be formed on the furnace, which will thus be sustained by legs instead of a frame, which legs can readily be removed when it is desired to pack or move the apparatus.

It will be readily understood that I can use one blast-pipe only, as shown in fig. 1 and in dotted lines in fig. 2, instead of the double branches shown in full lines in figs. 2 and 3.

A great desideratum in these machines is to prevent ashes, cinders, &c., from being blown into the barrel. This I accomplish by leading my blast-pipe over the grate as described, and, by releasing the spring catch C, the bottom B can be instantly dropped, by which means all the ashes, cinders, &c., are at once dumped out and the fire raked with a common poker. And this can be done in a remarkably short time, and without interfering in any way with the continuous operation of the apparatus.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The hinged bottom B of the furnace A, when arranged to operate substantially as and for the purpose specified.

2. The arrangement of the hot-air blast-pipe above the grate, and perforating its branches B, substantially as and for the purpose described.

3. The flanges or lugs *a*, on the outside of the furnace, in combination with the legs H, when constructed and operating substantially as and for the purpose specified.

Witnesses: ALEXR. A. C. KLAUCKE.

HORACE H. BROWER,  
A. M. DANIELS.