

No. 625,568.

Patented May 23, 1899.

J. KLIMEK.

AIR MIXING DRUM FOR FORGES.

(Application filed Apr. 23, 1898.)

(No Model.)

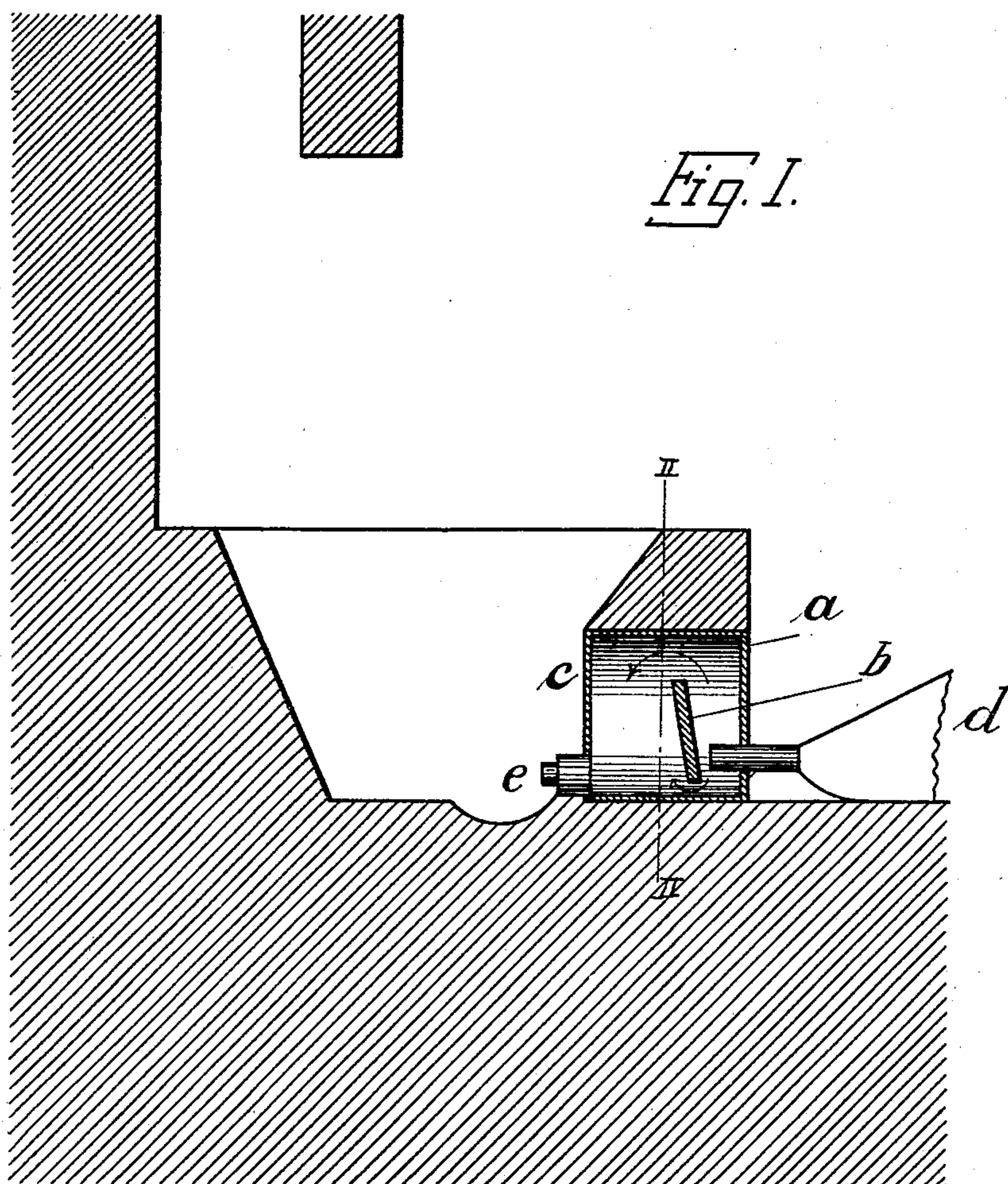
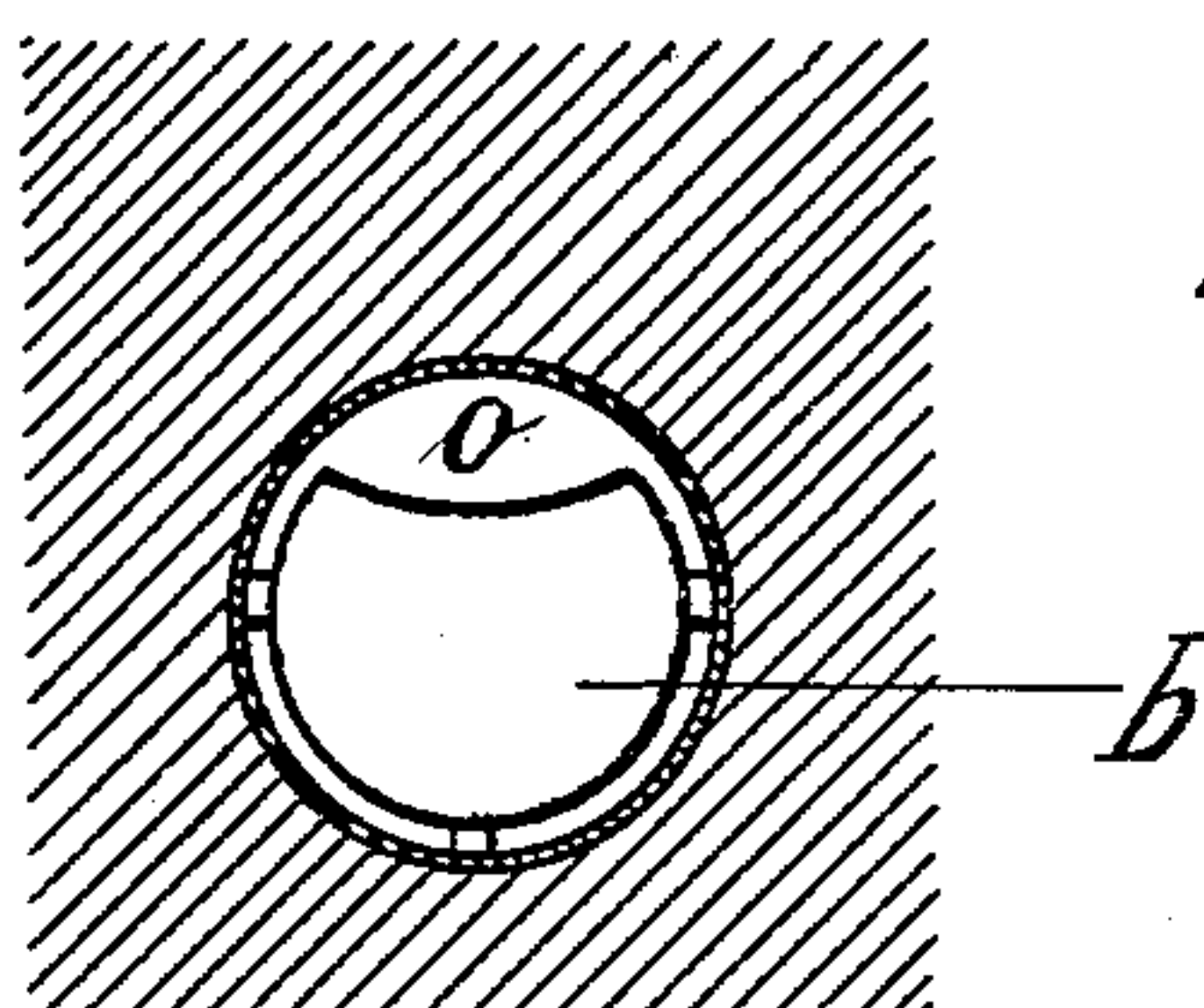


Fig. II.



Witnesses:-
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Att'y

UNITED STATES PATENT OFFICE.

JOHANN KLIMEK, OF MOKRAU, GERMANY.

AIR-MIXING DRUM FOR FORGES.

SPECIFICATION forming part of Letters Patent No. 625,568, dated May 23, 1899.

Application filed April 23, 1898. Serial No. 678,593. (No model.)

To all whom it may concern:

Be it known that I, JOHANN KLIMEK, a subject of the Emperor of Germany, and a resident of Mokrau, near Nicolai, Upper Silesia, Germany, have invented certain new and useful Improvements in Air-Mixing Drums for Use in Connection with Smiths' Fires, of which the following is a full, clear, and exact description.

10 The present invention consists of an air-mixing drum for use in connection with smiths' fires, said drum being bricked into the wall of the fire-hole between it and the bellows-nozzle and serving to mix the cold air
15 coming from the bellows with the warm air in the drum previous to its entrance into the fire.

In order to render the present specification more easily intelligible, reference is had to the accompanying drawings, in which—

20 Figure 1 represents a vertical section through a smith's fire; and Fig. 2, a detail of the drum in section on line II II, Fig. 1.

The drum A is bricked into the wall of the fire, one end *c* of the same lying directly in
25 or against the fire. The said drum is divided into two chambers by a partition-wall *b*, having an upper orifice *o*, and having its diameter slightly smaller than that of the drum, so as to leave a small opening *o'* all around, which
30 is only interrupted by the metal left to support the plate *b* in the drum. At the lower interior end of the drum the nozzle *e* is ar-

ranged, while the nozzle of the bellows *d* enters the chamber *a* of the drum. By means of this arrangement the cold air entering the
35 fire will first impinge against the baffle-plate *b* and then flow into the side *c* of the drum, where it will be mixed thoroughly with the air therein, which is warmed by the proximity of the fire, the plate *b* spraying the air into
40 the said end *c* of the drum, whence it passes to the fire in a heated condition through the nozzle *e*.

I claim as my invention—

The combination with a forge-pot of a drum
45 A bricked in the wall of the pot as specified, a substantially vertically disposed baffle-plate *b* within said drum intermediate of its length and having an upper opening formed by an
50 inverse-arc recess in the circumference of said plate, and a substantially annular space between its adjacent edges and the walls of the drum, a nozzle *e* at the lower part of the interior drumhead extending into the fire-pot, a
55 nozzle extending through the outer drumhead at the lower part thereof, said nozzle being in communication with the wind-supply pipe substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

JOHANN KLIMEK.

Witnesses:

R. HETTMANN,
ERNST KATZ.