

No. 719,652.

PATENTED FEB. 3, 1903.

D. EINSTEIN.  
SMOKE FLUE.

APPLICATION FILED AUG. 27, 1902.

NO MODEL.

FIG. 1

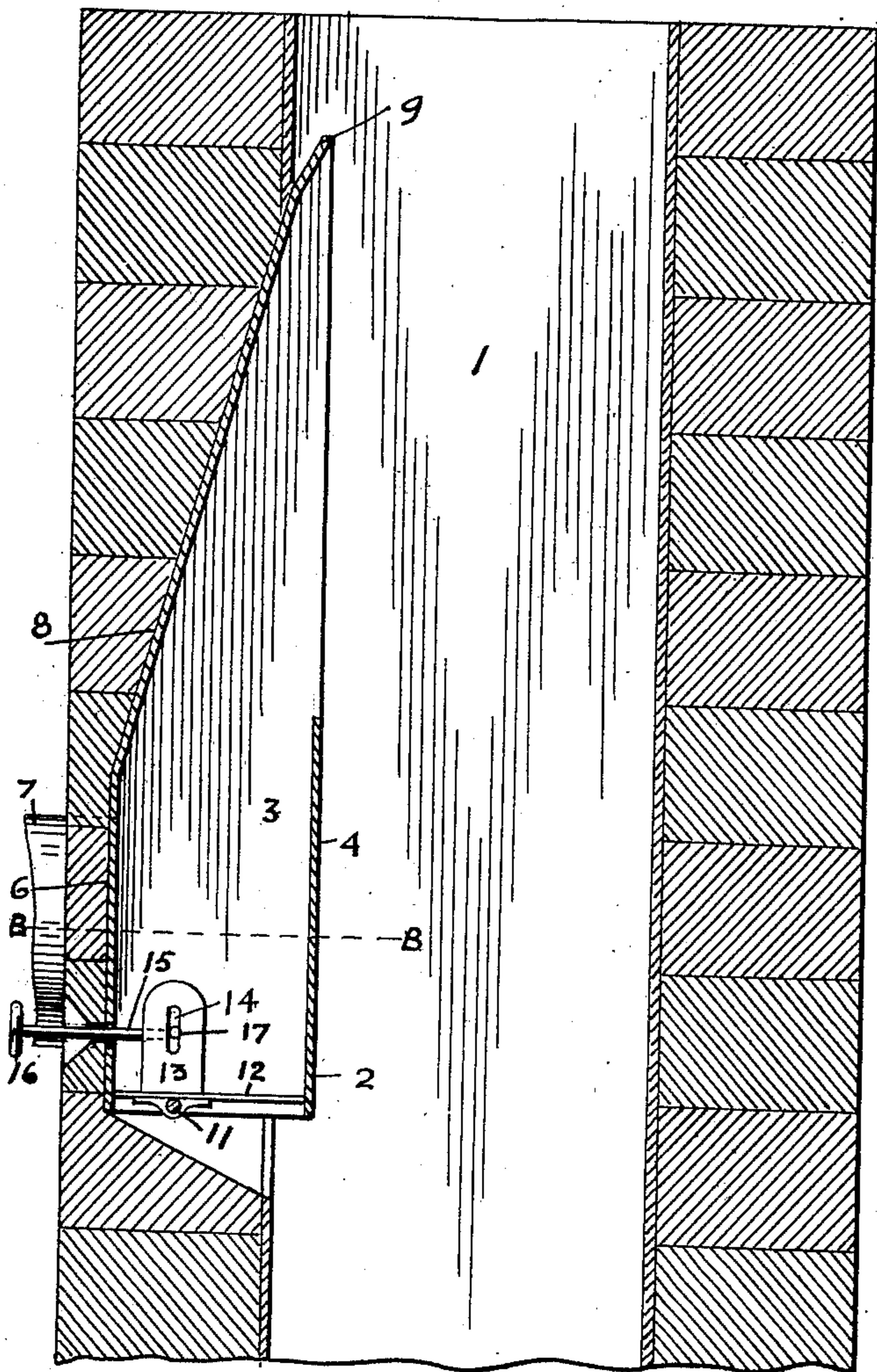


FIG. 2

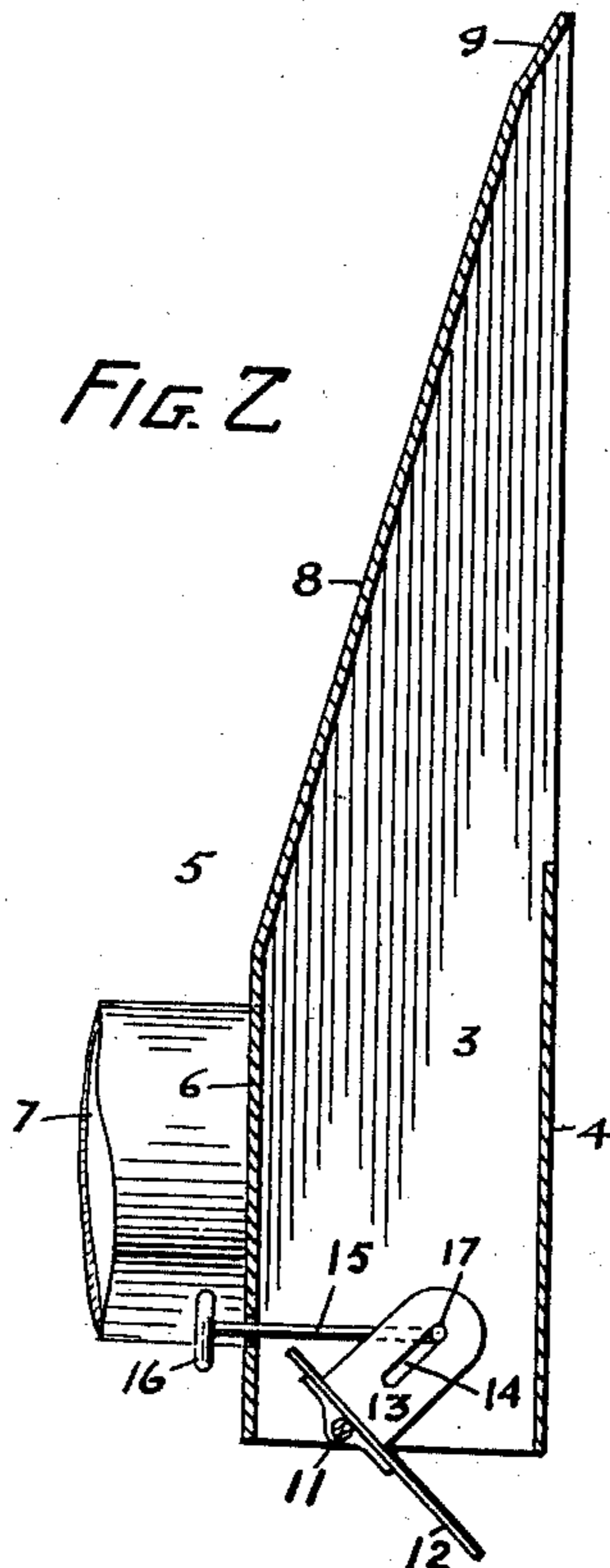
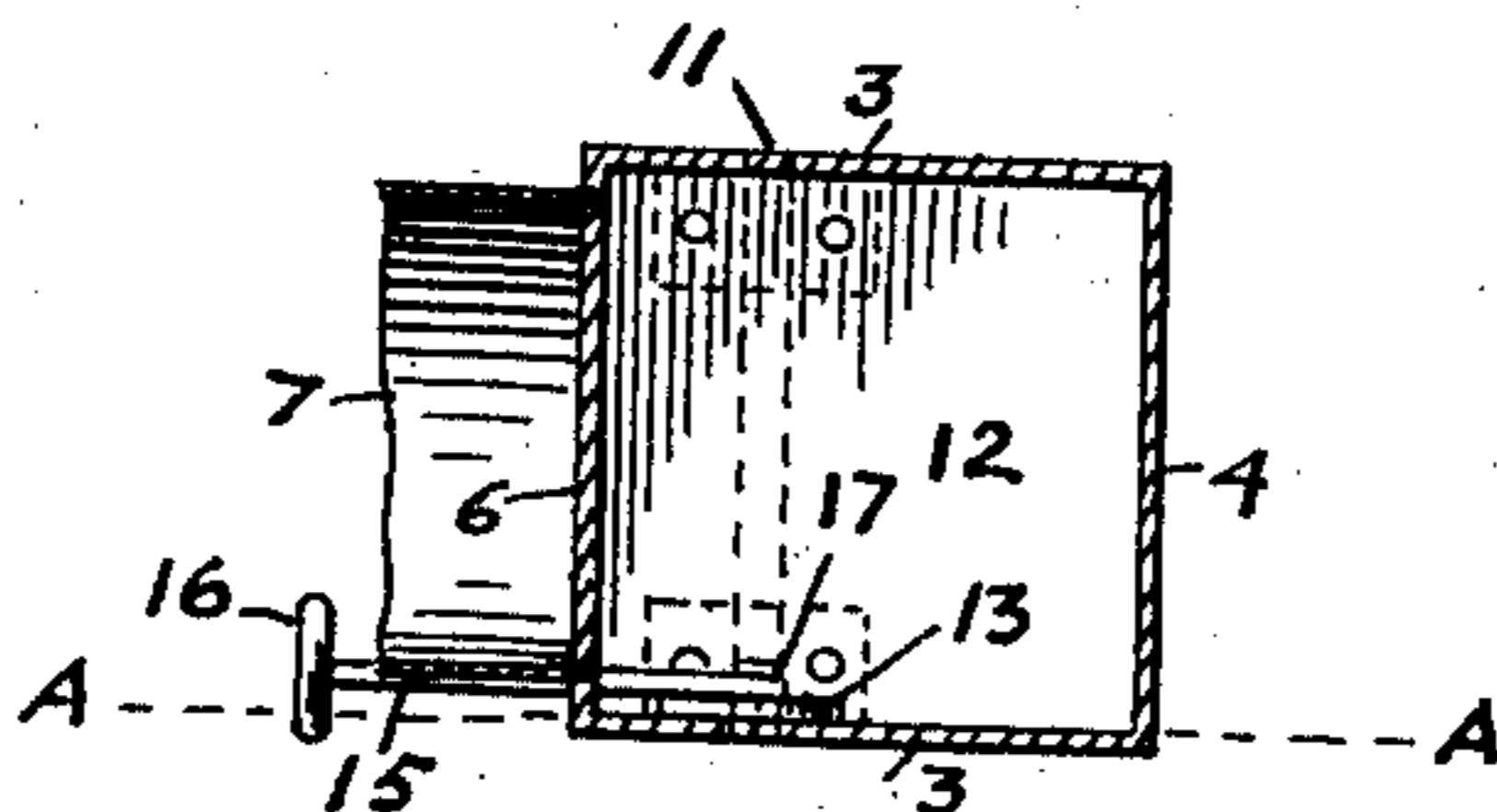


FIG. 3



WITNESSES:

*Leon Boillon*  
*Bessie Gorfinkel*

INVENTOR:

*Daniel Einstein*  
By *Francis M. Wright*  
*Attorney*

# UNITED STATES PATENT OFFICE.

DANIEL EINSTEIN, OF SAN FRANCISCO, CALIFORNIA.

## SMOKE-FLUE.

SPECIFICATION forming part of Letters Patent No. 719,652, dated February 3, 1903.

Application filed August 27, 1902. Serial No. 121,168. (No model.)

*To all whom it may concern:*

Be it known that I, DANIEL EINSTEIN, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Smoke-Flues, of which the following is a specification.

My invention relates to improvements in smoke-flues, the object of my invention being to provide an apparatus which will increase the draft and at the same time permit of accumulations of soot or ashes to be removed from time to time to prevent clogging up of the apparatus.

My invention therefore resides in the novel construction, combination, and arrangement of parts for the above ends hereinafter fully specified, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a vertical section of my improved apparatus on the line A A of Fig. 3. Fig. 2 is a similar view showing the trap-door opened, and Fig. 3 is a horizontal section on the line B B of Fig. 1.

Referring to the drawings, 1 represents a chimney, one side of which is cut away, as shown, to receive the apparatus, (shown at 2.) Said apparatus comprises the vertical sides 3, continuous from top to bottom, the inner side 4, which extends upward from the bottom to a point slightly below the middle of the apparatus, and the outer side or front 5, which comprises a vertical portion 6, into which is secured a smoke-pipe section 7, a sloping portion 8, and an upper portion 9, sloping at a greater angle.

In the open bottom 10 of the apparatus is

pivotaly mounted on a shaft 11 a trap-door 12. Said trap-door has secured thereto an upwardly-extending standard 13, having a slot 14. A rod 15, provided with a suitable handle 16, extends through the chimney at the front of the apparatus and also through the front wall 5 thereof and its end is bent, as shown at 17, to engage the slot 14, and thereby operate said standard and trap-door.

In operation the smoke entering through the pipe-section strikes the metallic rear wall 4 and the trap-door 12 being closed is deflected upwardly, being directed obliquely into the chimney by means of the front sloping walls 8 and 9. When there is an accumulation of soot or ashes at the bottom of the box, this can readily be discharged by pushing inward the rod 15. The trap-door is then swung downwardly and the soot or other deposit is discharged into the passage of the chimney.

I claim—

The smoke-flue comprising the front wall into which the smoke-pipe enters, the upper portion whereof is sloped as shown, the rear or inner wall extending partly up the apparatus, the open bottom, the trap-door closing said bottom and means for opening the trap-door to discharge the deposit of soot or other material, substantially as described.

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

DANIEL EINSTEIN.

Witnesses:

FRANCIS M. WRIGHT,  
BESSIE GORFINKEL.