

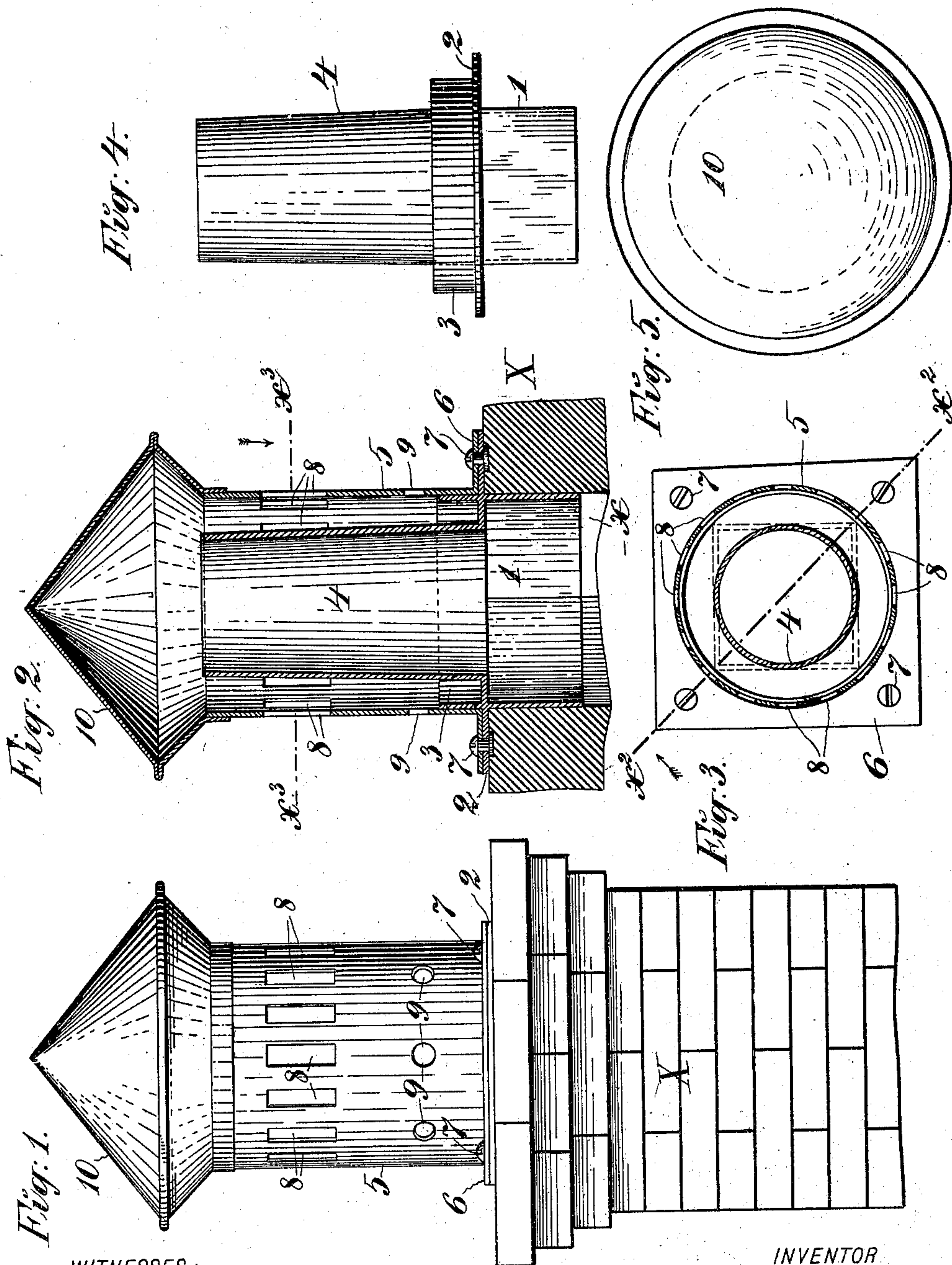
No. 612,638.

Patented Oct. 18, 1898.

R. BLUM.  
CHIMNEY TOP AND VENTILATOR.

(Application filed Mar. 5, 1898.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

RUDOLF BLUM, OF NEW YORK, N. Y.

## CHIMNEY TOP AND VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 612,638, dated October 18, 1898.

Application filed March 5, 1898. Serial No. 672,632. (No model.)

To all whom it may concern:

Be it known that I, RUDOLF BLUM, a subject of the Emperor of Germany, residing in the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Chimney Tops and Ventilators, of which the following is a specification.

This invention relates to the class of devices for increasing the draft of chimneys and ventilating-flues, and the object is to provide a simple, inexpensive, and efficient device for the purpose which has no moving parts and which may be constructed by any sheet-metal worker.

The accompanying drawings illustrate an embodiment of the invention.

Figure 1 is a side elevation of the device, represented as mounted on a chimney. Fig. 2 is a vertical section of same on line  $x^2$  in Fig. 3. Fig. 3 is a horizontal section of same on line  $x^3$  in Fig. 2. Fig. 4 is a side view of the interior part detached. Fig. 5 is a plan view.

X represents a chimney or ventilating-shaft, and  $x$  the rectangular flue therein.

The device comprises two parts—the interior part and the exterior part. These are fitted and secured together removably in use. The interior part (seen detached in Fig. 4 and *in situ* in Fig. 2) is made by preference from metal, either cast or sheet metal—as heavy galvanized iron, for example. It comprises a base 1 to fit into the flue  $x$ , a laterally-projecting flange-plate 2, an upright flange 3, and a cone 4, which forms a continuation of the flue  $x$ , above the top of the latter. Usually the base 1 will be rectangular, so as to fit down into the rectangular flue in the chimney, and the flange-plate 2 will also be rectangular to rest on the top of the chimney. The flange 3 and cone 4 will be circular in plan by preference. The outer or exterior part consists of an upright cylinder 5, with a flange 6 at its base to rest on the flange 2, to which it is secured by screws or bolts 7, said cylinder fitting down snugly over and about the flange 3, as seen in Fig. 2. This cylinder has in it apertures 8 for the escape of the smoke or gases arising from the flue  $x$  and lower down a series of inlet-apertures 9, Fig.

1, for air. On the top of the cylinder 5 is a closing-bonnet 10 of larger diameter than the cylinder and forming a chamber of considerable capacity to receive the gases from the cone 4, which extends up above the apertures 8. The bonnet 10 has a flared base and a conical top, as clearly shown in Figs. 1 and 2, so as to deflect downward the gases ascending into it from the cone 4.

It will be seen that the construction is very simple and that the setting up of the device on the chimney or stack is equally simple. The device being in two parts, the interior part (seen in Fig. 4) is set by fitting the hollow base 1 into the flue, with the flange 2 seated firmly on the top of the chimney. This will suffice to hold the chimney-top in place. The exterior member or part is now fitted down over the flange 3, which it should embrace snugly until the flange 6 rests on the flange 2, to which it is secured.

The gases or smoke flowing out from the open top of the cone 4, being concentrated by the conical form of the latter, rise in the bonnet 10 and are deflected down to the outlets 8, which should have area sufficient to permit their free escape. The cone rises above the apertures 8, which prevents back draft from wind, and air entering at the apertures 9 rises and tends to accelerate the draft by creating an upward current in the annular space between the cone and the larger exterior cylinder. Wind blowing upon any side of the cap accelerates the draft by tending to produce a vacuum in the bonnet 10.

Having thus described my invention, I claim—

1. A chimney top and ventilator comprising two simple, non-moving elements or parts secured together removably, the interior part comprising an open-topped cone with a base adapted to fit into the flue and an upright flange to receive the exterior part, the said exterior part having an upright cylinder which fits down over the upright flange on the interior member and has an enlarged deflecting-bonnet, and outlet-apertures for the smoke or gases situated below the top of the cone of the interior member, substantially as set forth.

2. In a chimney top or ventilator, the combination with an inner member or part, hav-

ing a base 1, to fit into the flue, the flange 2,  
the open-topped cone 4, and the upright flange  
3, exterior to the cone, of the exterior mem-  
ber or part, having a cylinder 5, adapted to  
5 fit down over the flange 3 and provided with  
outlet-apertures 8 and inlet-apertures 9, a de-  
flecting-bonnet 10, closing the top of the cyl-  
inder, and means for securing the outer to the  
inner member or part, the cone 4 extending

above the apertures 8 in the cylinder 5, sub- 10  
stantially as set forth.

In witness whereof I have hereunto signed  
my name, this 3d day of February, 1898, in  
the presence of two subscribing witnesses.

RUDOLF BLUM.

Witnesses:

PETER A. ROSS,  
HENRY CONNETT.