

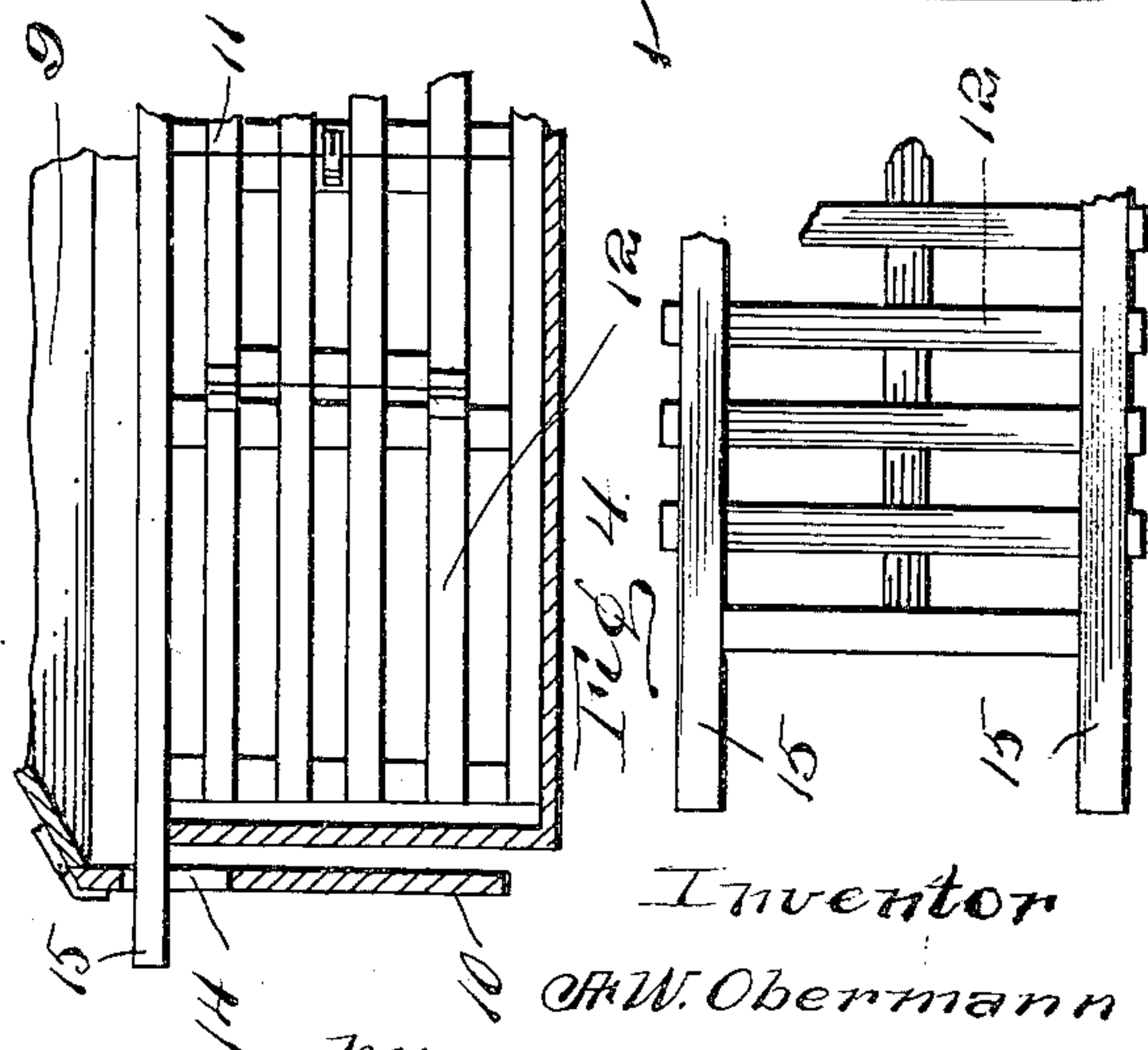
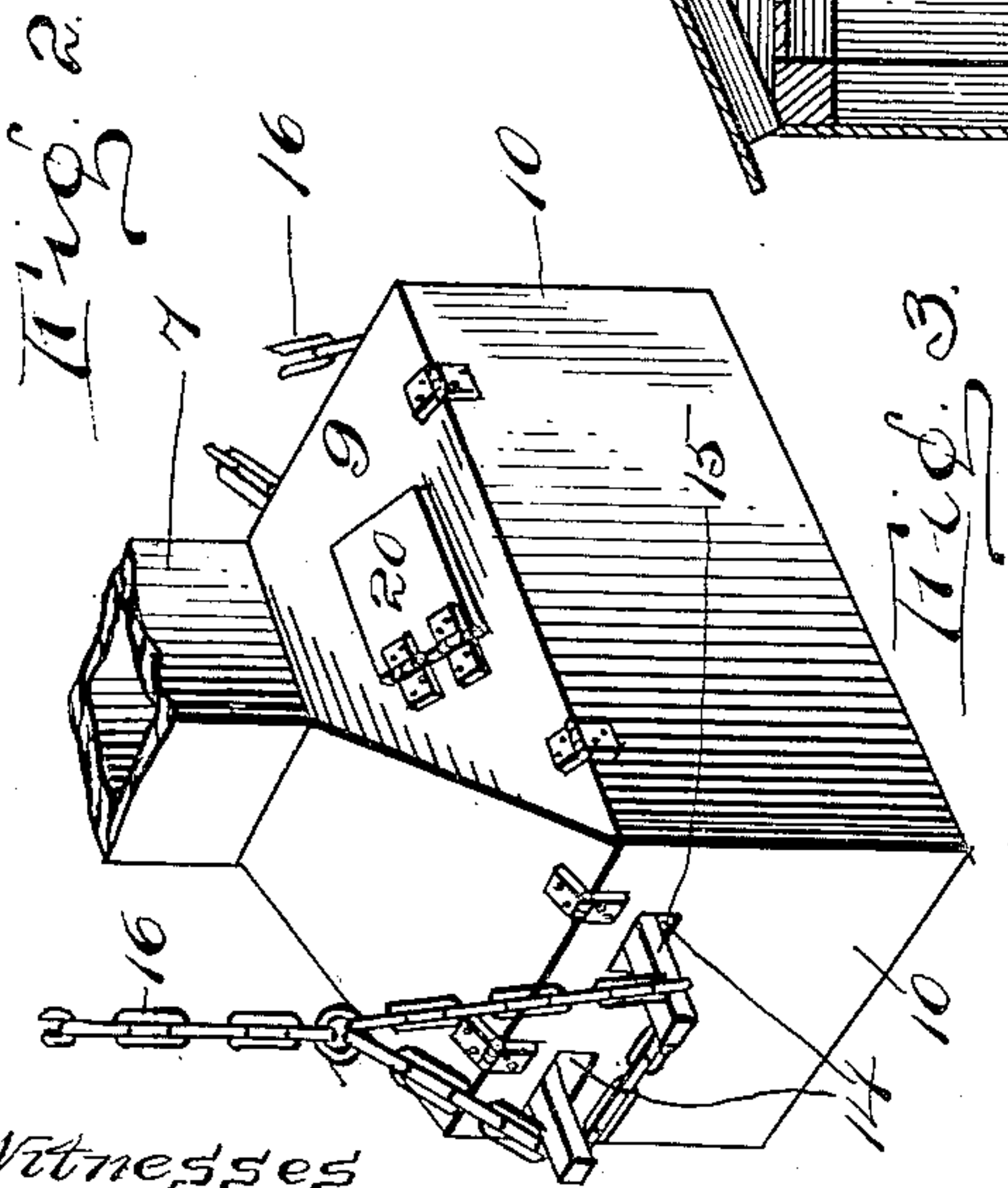
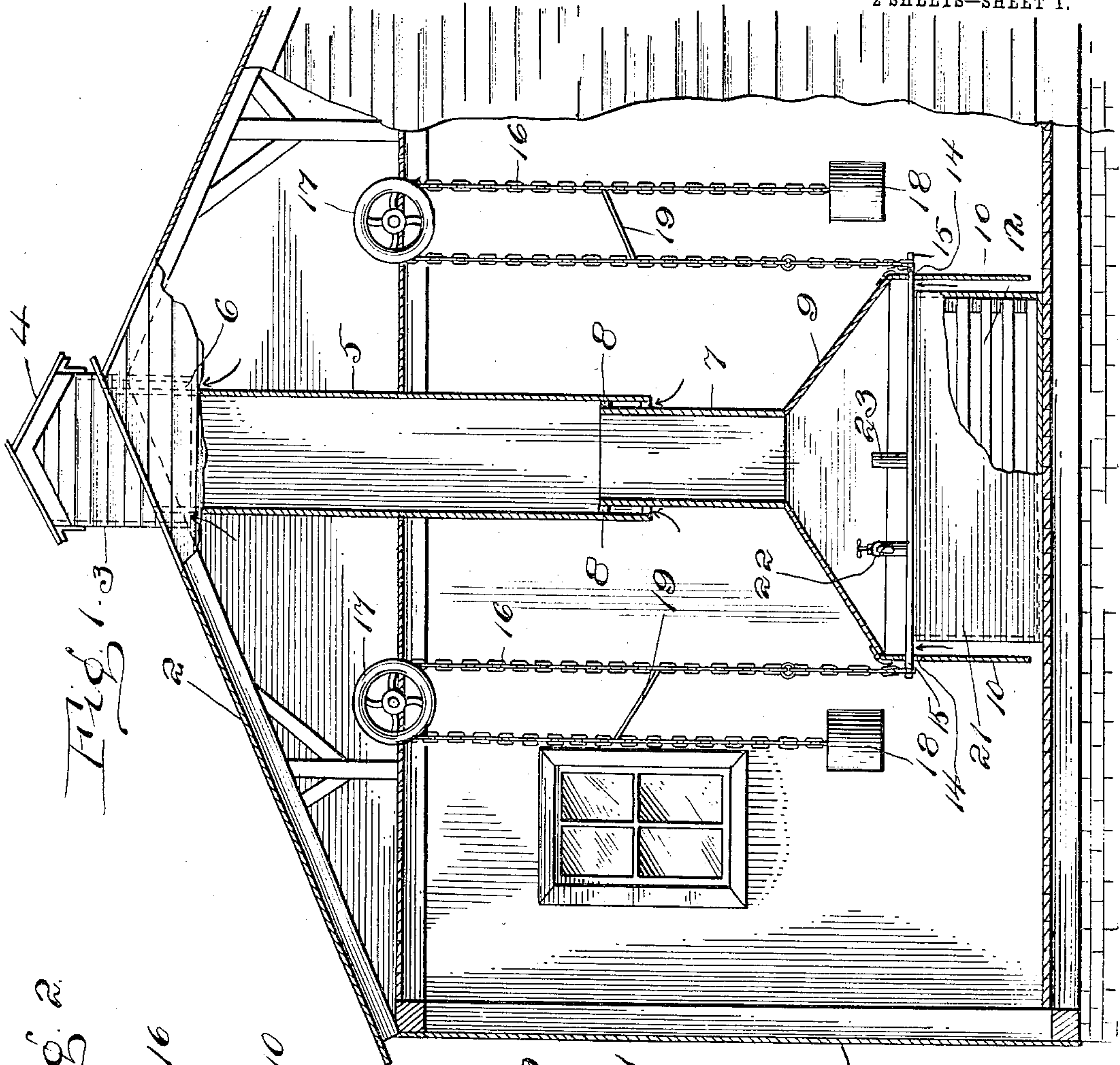
A. W. OBERMANN.
VENTILATOR.

APPLICATION FILED FEB. 20, 1906. RENEWED FEB. 25, 1909.

935,681.

Patented Oct. 5, 1909.

2 SHEETS—SHEET 1.



Witnesses

Samuel T. Payne.
D. H. Butler

Inventor

by A. W. Obermann
Attorneys

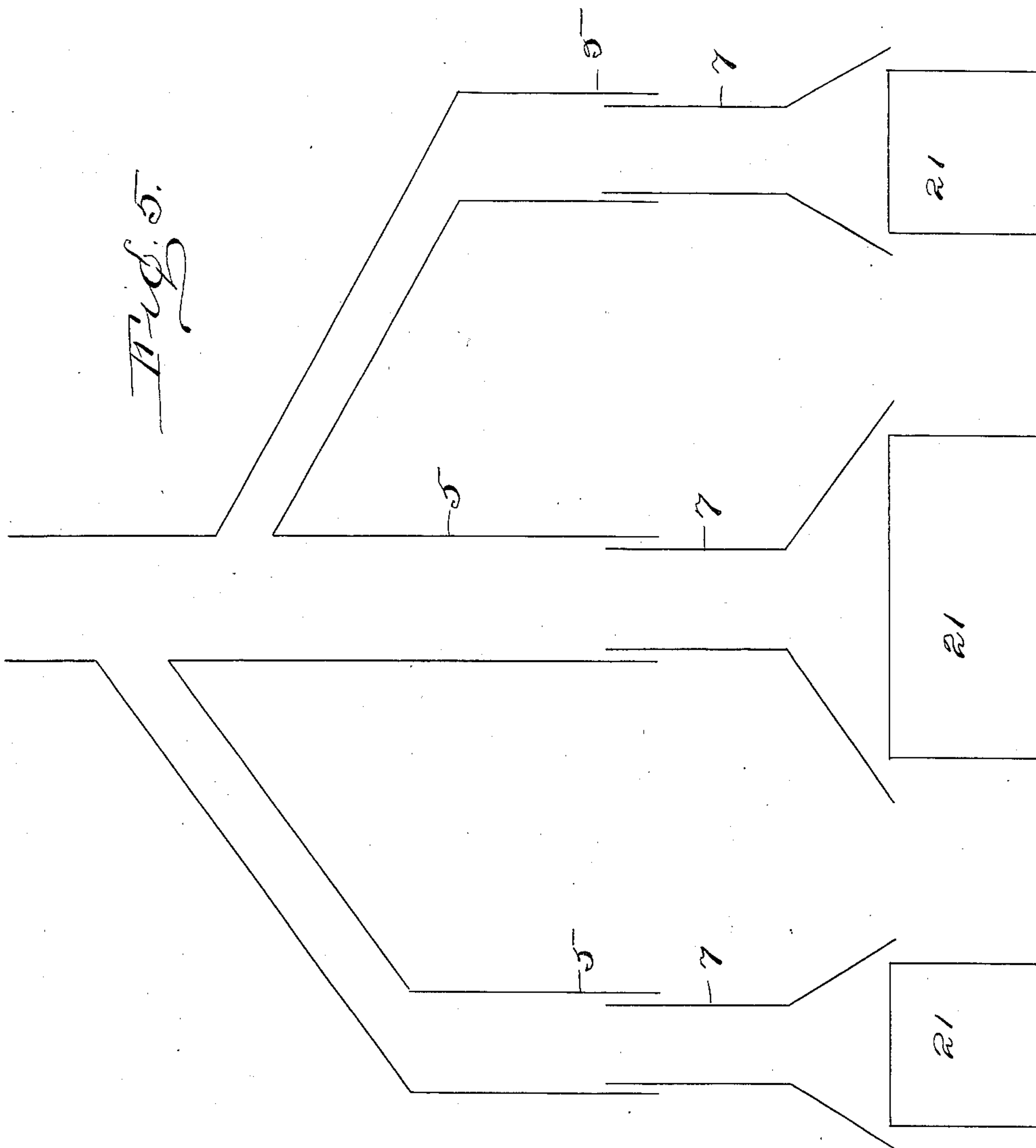
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UNITED STATES PATENT OFFICE.

AUGUST W. OBERMANN, OF JOHNSTOWN, PENNSYLVANIA.

VENTILATOR.

935,681.

Specification of Letters Patent.

Patented Oct. 5, 1909.

Application filed February 20, 1906, Serial No. 302,151. Renewed February 25, 1909. Serial No. 479,894.

To all whom it may concern:

Be it known that I, AUGUST W. OBERMANN, a citizen of the United States of America, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented certain new and useful Improvements in Ventilators, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to certain new and useful improvements in ventilators, and relates particularly to a ventilator applied in factories and shops containing pickling vats and the like, for the purpose of carrying off the obnoxious gases emanating from the chemicals.

The present invention aims to successfully carry away all the poisonous matter that is detrimental to the health of workmen and others who are obliged to remain in buildings where dangerous chemicals are continually handled.

The present invention further aims to provide a ventilator of the above described character that will be extremely simple in construction, strong, durable, comparatively inexpensive to manufacture, and highly efficient in its operation.

A still further object of my invention is to provide a ventilator that will successfully carry off the obnoxious odors from the chemicals during the operation of withdrawing the articles from the vat, and also carry off the gases during the chemical operation of pickling.

With the above and many other objects in view, my invention consists in the novel construction, combination and arrangement of parts to be hereinafter more fully described and specifically pointed out in the claims.

In describing the invention in detail, reference is had to the accompanying drawings forming a part of this application, and wherein like numerals of reference indicate like parts throughout the several views, in which:

Figure 1, is a vertical sectional view of a building or factory having arranged therein my improved ventilator, the latter being also shown in vertical section. Fig. 2, is a detail perspective view of the hood, showing a portion of the movable stack. Fig. 3, is a fragmentary vertical sectional view of a vat, showing arranged therein a slatted recep-

tacle and also illustrating a section of the hood. Fig. 4, is a fragmentary view of a portion of the receptacle or basket formed of slats. Fig. 5 is a diagrammatic view illustrating three tanks having a common stack.

In these drawings, 1 represents a building, and 2 the roof thereof; within the latter is secured a stack 3 which is preferably formed of slats and carries a top or hood 4. Arranged within the upper portion of the stack 3 is a permanent stack 5, which is preferably square, or may be made round if desired. Between the upper end of the stack 5 and portion 3 of the stack, a space is formed as shown at 6, for the purpose of creating an additional draft. The portion 7 of the stack, which is suitably spaced therein by the space blocks 8 rigidly secured to the inner walls of the stack 5, permits the stack to be raised or lowered, and slide within the stack 5.

The sliding or movable portion of the stack 7 carries a hood 9, the sides of which flare outwardly and carry a series of hinged doors 10, preferably one on each side of the hood, these doors extending downwardly and the front and rear door may be raised and rest upon the upper face of the hood when it is desired to gain access to the slatted basket 11, which is provided with doors 12, for the purpose of removing the ware or articles from the basket when the latter have been raised to an elevated position. The side doors of the hood have formed therein openings 14 through which extend the side rails 15 of the slatted basket, in order to engage the ends of the chains 16 which extend over pulleys 17 suitably journaled or secured in the building, and arranged upon each side of the stack. At the free ends of the chains 16, are secured counter-weights 18, which approximately balance the movable portion of the stack, together with the hood doors and filled basket attached thereto. Connecting bars 19 are provided for the purpose of connecting and disconnecting the strands of the chain 16 when it is desired to operate the apparatus. A door 20 is provided in the hood in order to remove a single article of ware to test the same without disturbing the other articles contained in the basket, and bringing the latter to an elevated position.

The reference numeral 21 represents a vat

or tank in which the slatted basket and ware is submerged, and 22 a faucet for filling the tank with fluid.

The reference numeral 23 designates a steam pipe which is preferably arranged in the rear of the vat 21, this steam pipe projecting upwardly and controlled by a valve, not shown in the drawings, the function of said steam pipe or jet being to create an artificial draft during cold weather, for the purpose of assisting the natural draft which is created by the peculiar construction of the stack, as heretofore fully described.

The operation of my improved stack is as follows:—The articles or ware are placed in the basket and submerged in the tank filled with chemicals, and all the odors arising from the chemicals will be successfully carried off through the stack by means of the natural draft created, first, under the hood, thence by the opening formed between the sections 7 and 8 of the stack, and again at a point near the upper portion of the stack. When it is desired to withdraw the articles or ware from the slatted basket, the chains 16 are operated, thereby lowering the counter weight 18, and raising the slatted basket, together with the hood 9 and movable section 7 of the stack. The doors 12 of the basket are then opened, and the ware withdrawn, after the doors 10 have been raised to gain access to the slatted basket.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

Having fully described my invention,

what I claim and desire to secure by Letters Patent, is:—

1. In combination in a ventilator, a basket having side rails extended beyond its ends, a hood having openings in its end walls to receive the extended ends of said side rails, a stack embodying a stationary section and a movable section, the latter secured to the hood and telescoping within the stationary section, and weighted chains connected to the ends of the side rails of said basket for elevating the basket and hood simultaneously.

2. In a ventilator, a hood having side doors, and having openings in its ends, side rails extended through said openings, a stack embodying a stationary member and a movable member, the latter connected to the hood and telescoping within the stationary member, and having chains connected to said side rails, substantially as described.

3. In a ventilator, a hood having side doors, and having a door in its top, the ends of said hood provided with openings, rails extending through said openings, a stack communicating with the hood, the chains connected at their one end to said rails, pulleys over which said chains travel, counterweights on the free ends of said chains, and connecting bars for securing the two strands of said chain together, substantially as described.

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

AUGUST W. OBERMANN.

Witnesses:

E. E. POTTER,
M. E. WHITE.