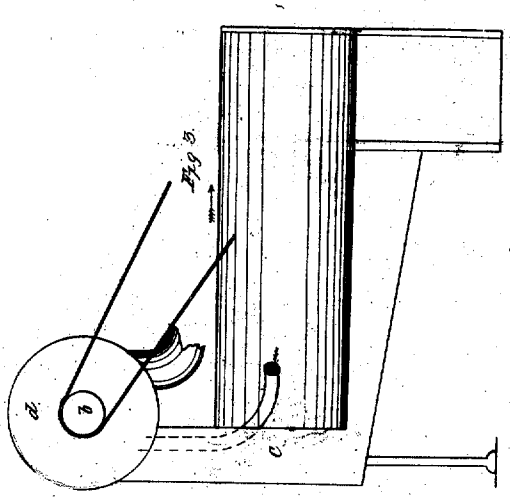
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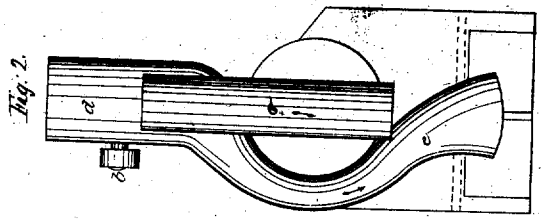
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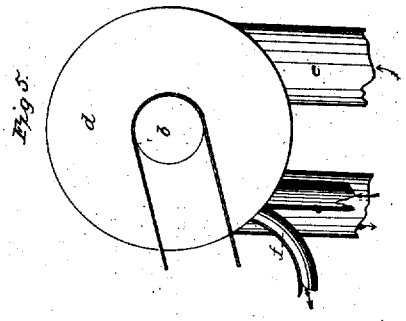
# N. Lockling,

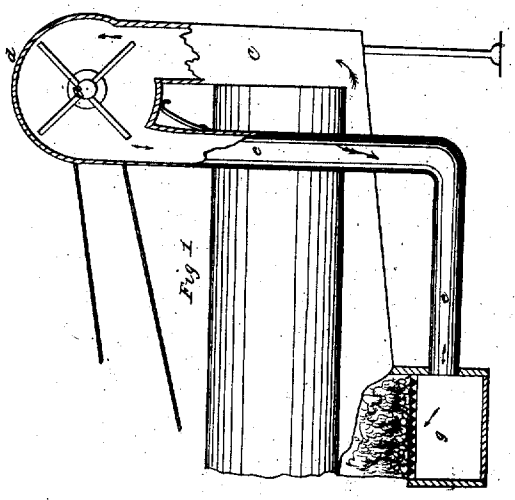
## Smoke Consumer,

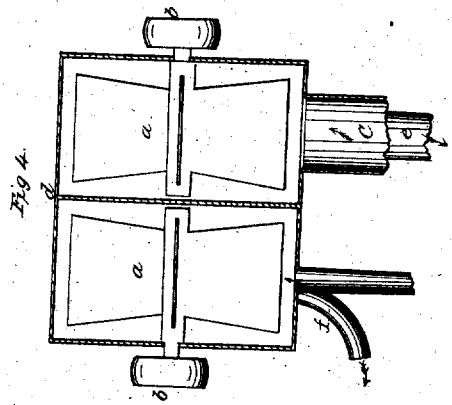
Patented Mar. 4, 1836.



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Mar. 4. 1836 29.

# Nathan Lockling. of Sparta, State of New York.

## Lillus Patent.

The Schedule referred to in these Letters Patent and making part of the same, containing a description in the words of the said Nathan Lockling himself of his improvement in the apparatus for consuming smoke and steam to be affixed to Steam Boilers —

To all to whom these presents shall come

Be it known that I Nathan Lockling of Sparta in the County of Livingston and State of New York, have invented a new and useful improvement in the method of obtaining for combustion the smoke produced from the fire of an ordinary Steam Engine; and also for condensing the steam from the escape pipe, either separately or together with the smoke, heat, &c from the smoke pipe into the reservoir; thereby producing a great economy of heat.

The invention relates to an improved combustion plate, apparatus, and for that purpose, the nature of which and the manner wherein the same is to be performed is fully described and ascertained by the following description, the invention consists of an apparatus applied to the outlet of either, or both of the pipes, used for the escape of the smoke, or of the steam, &c. as to produce a strong current of air, by means of a fan or bellows, which I sometimes by applying drums to a shaft revolving in a suitable case. Taking care that they create as near the air compressed by the case as movement, and the shaft may be driven by any suitable application from the engine. The first inlet to which is situated at the [illegible] Another one side of the same is to be formed for giving for the admission of the escape pipe so as that by the motion of the fan the current created by the revolving of the fan [illegible] through the [illegible] in the opposite

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vide, into a the third figure. Leading to the desired point; which is one that the smoke is to be burned, and by this bringing it into intimate contact with the fuel, so as to be drawn through it, that if the object only be to carry it together with the escape steam, into the reservoir; then of course the escape steam pipe will also pass into the rotary bellows, or the smoke pipe. Should it be desired to conduct them to different points, as for instance the smoke through the fire, and the steam into the reservoir, then I use a rotary bellows with an apt sufficiently long to admit of a partition between or a division of the wings, thereby forming two chambers, one intended for the smoke, and the other for the steam, I would have it understood that I do not claim the combination of the smoke, nor the mixture of it, and the escape steam, or the escape steam only; but what I do claim is the adaptation of the rotary bellows, according to the manner of arrangement above set forth as a means of conducting the smoke or steam from the escape pipes thereof to the points already designated in the annexed steam engine

In testimony that the above is a full description of my improvement, I have hereunto set my hand this fifth day of February in the year eighteen hundred and thirty six

Witnesses
S. R. Wendell
Chas. McEvers

Nathan Sheeling

Patented Feb 5