

L. B. TRANSUE.
STOVE ATTACHMENT.
APPLICATION FILED MAY 16, 1911.

1,036,382.

Patented Aug. 20, 1912.

Fig. 1.

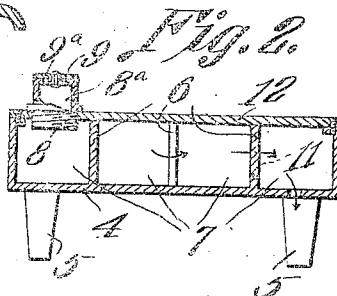
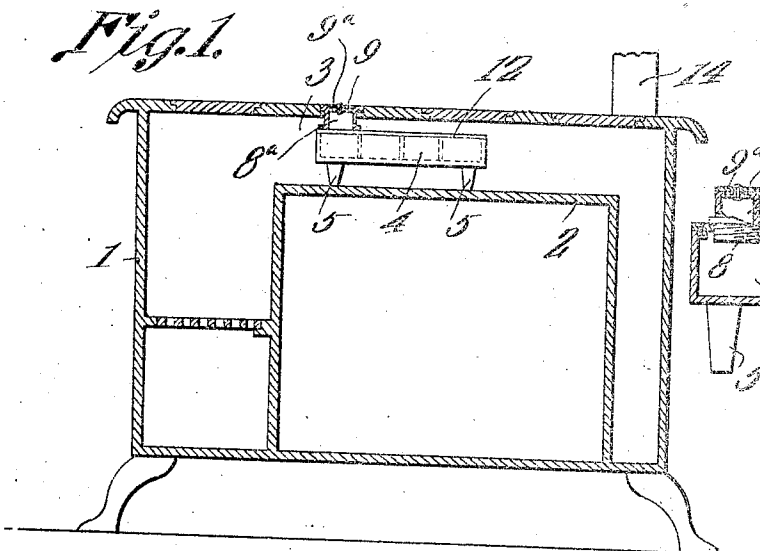
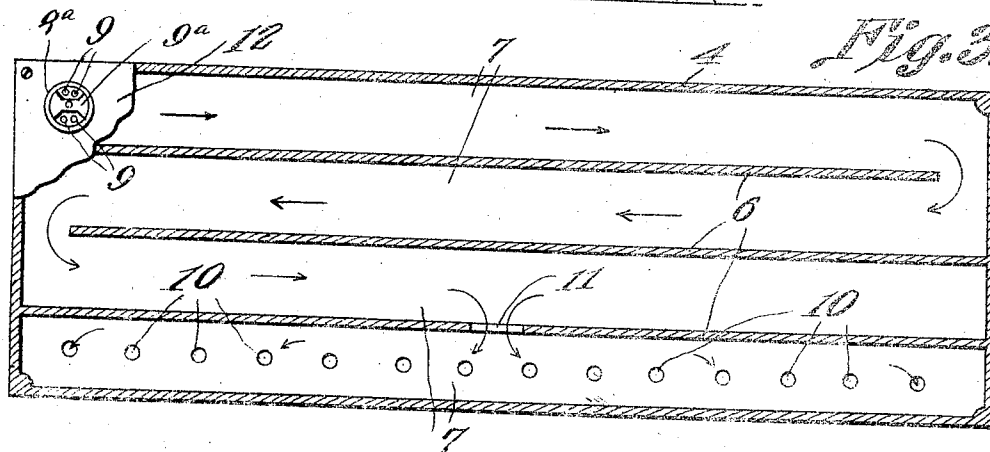


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

LEVI B. TRANSUE, OF HAZLETON, PENNSYLVANIA.

STOVE ATTACHMENT.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LEVI B. TRANSUE, a citizen of the United States, residing at Hazleton, in the county of Luzerne and State of Pennsylvania, have invented a new and useful Stove Attachment, of which the following is a specification.

This invention relates to attachments for stoves, furnaces and the like, and has for its object the provision of means whereby hot air may be admitted to the stove or furnace at points where it will thoroughly mix with the unconsumed products of combustion escaping from the fire box, thus completing combustion within the stove or furnace.

Another object is to provide an attachment of this character which is cheap to manufacture and which can easily be placed in a stove or furnace of ordinary form.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings:—Figure 1 is a vertical section through a cook stove having the attachment in position therein. Fig. 2 is an enlarged section through the attachment. Fig. 3 is a horizontal section through said attachment, one corner portion thereof being shown in plan.

Referring to the figures by characters of reference 1 designates a stove having an oven 2, there being the usual flue 3 between the top of the oven and the top of the stove. The attachment constituting the present invention is adapted to be placed within the flue of the stove and consists of a box-like casing 4 extending throughout the depth of the flue and mounted on legs 5 which serve to support said casing above the oven 2. Partitions 6 are arranged longitudinally within the casing of the attachment and are disposed in staggered relation so as to form a tortuous passage extending from one side to the other of the attachment, this passage being made up of compartments 7

disposed in parallel relation. The compartment located at one side of the attachment has an air inlet opening 8 into which projects a threaded nipple 8^a provided with air openings 9 and a damper 9^a is pivotally mounted on the nipple and is adapted to be rotated so as to expose any desired number of the openings, thus controlling the supply of air to the casing of the attachment. A plurality of outlet openings 10 is formed in the bottom of the compartment 7 at the other side of the attachment and said compartment preferably communicates at its center with the next adjoining compartment, as indicated at 11, instead of communicating therewith at one end, as do the other compartments.

The top of the attachment is preferably formed of a plate 12 detachably secured in any suitable manner upon the casing 4, this plate extending over all of the compartments 7 and the opening 8 being formed within it at the proper point.

The attachment is adapted to be placed in the flue of the stove or, in other words, between the stove top and the top of the oven 2 and when thus positioned, the nipple 8^a lies flush with the top of the stove and in an opening formed therein. As the nipple is threaded it can be adjusted to proper position.

It will be apparent that when fuel is burning within the stove, the products of combustion escaping through the flue of the stove to the smoke pipe 14, will thoroughly heat the attachment and air admitted to said attachment through opening 8 will circulate through the communicating compartments and be thoroughly heated after which it will be discharged through the openings 10 and mixed with the products of combustion, thus forming a combustible mixture which will be consumed above the oven and before it escapes through the pipe 14. A considerable saving of fuel will thus be effected and a more intense heat can be obtained than where the attachment is not employed.

What is claimed is:—

The combination with a stove having a flue therein, there being an opening in the top of the stove and above the flue, of an attachment removably mounted in the flue and including a casing, legs for spacing it from the surface on which it is mounted, a partition extending throughout the length

of the casing adjacent one end, said partition having a central opening and there being a compartment between said partition and one longitudinal wall of the casing, 5 said compartment communicating solely through said central opening with the remaining portion of the interior of the casing, there being a plurality of outlet openings in the bottom of said compartment and communicating with the space between the casing and the supporting surface thereunder, a series of longitudinally extending partitions within the casing and disposed in staggered relation to form a tortuous passage, 10 one end portion of the passage communicating with said central opening, there being

an air inlet opening in the top of the casing and at the other end of said passage, a nipple removably mounted in the air inlet opening and adapted to fit snugly in the opening 20 in the top of the stove, there being apertures in the upper end of the nipple, and a damper movably mounted on said end and adapted to control the flow of air through the apertures. 25

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

LEVI B. TRANSUE.

Witnesses:

FRANK B. OCHSENREITER,

LENA WILLSON.