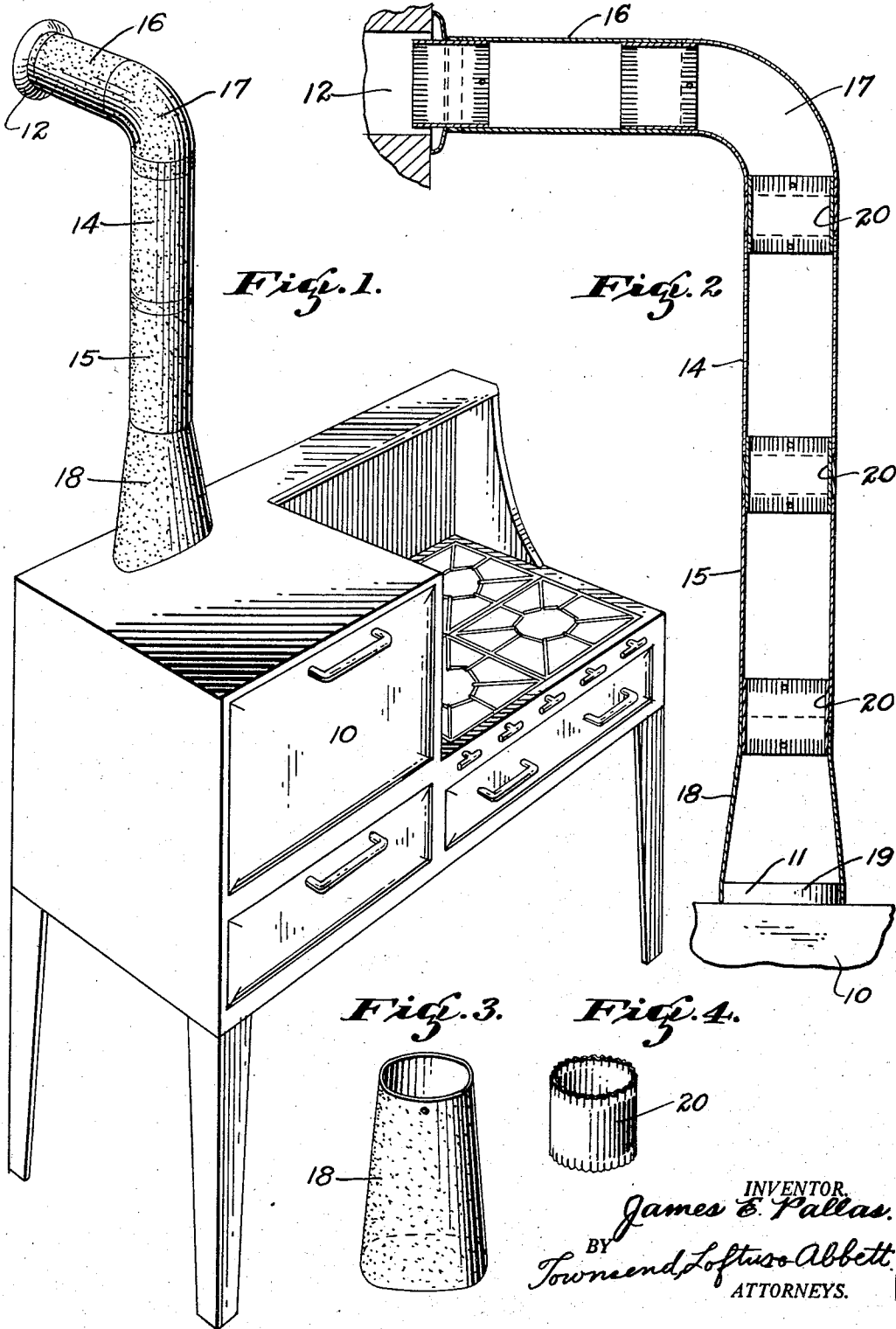


Sept. 10, 1935.

J. E. PALLAS
STOVEPIPE

2,014,073

Original Filed Sept. 16, 1931



INVENTOR
James E. Pallas.
BY
Lowmendo Loftuso Abbott.
ATTORNEYS.

UNITED STATES PATENT OFFICE

2,014,073

STOVEPIPE

James E. Pallas, San Francisco, Calif.

Application September 16, 1931, Serial No. 563,982

Renewed November 14, 1934

2 Claims. (Cl. 285—197)

This invention relates to ornamental stove pipe.

Many types of modern stoves are manufactured with an enameled finish for enhancing their appearance. Likewise, stove pipe has been provided with an enameled finish in order to harmonize with the stove. As the distance between the smoke outlet of the stove and the flue opening can seldom be met by a combination of stove pipe sections of standard length, it is usually necessary to cut one or more pipe sections to effect a proper connection. In manufacturing enameled pipe, the pipe is cut in standard lengths and then enameled. After the pipe is enameled, it is exceedingly difficult to cut it and even when a cut is effected a chipped and unsightly end results.

It is the principal object of the present invention to provide an enameled stove pipe construction which can be expeditiously assembled to effect a proper connection between the smoke outlet of the stove and a flue opening regardless of the dimension therebetween without the necessity of cutting a pipe section.

In practicing my invention, I provide enameled stove pipe sections in lengths which are multiples of one inch. The ends of these sections when the stove pipe is assembled are held in abutting relation by the provision of sleeves which telescope within the ends of the enameled sections. The fittings are connected to the straight lengths in a similar manner and by such an arrangement a stove pipe may be expeditiously assembled in any desired length which pipe will present a flush and entirely enameled exterior surface. The pipe also may be erected in the proper length without the necessity of cutting a straight section to meet the required dimension.

The invention is exemplified in the following description and illustrated by way of example in the accompanying drawing, in which:

Fig. 1 is a perspective view of a stove with a stove pipe assembled in accordance with my invention illustrated as connecting the stove to the flue opening.

Fig. 2 is an enlarged view of a stove pipe constructed and assembled in accordance with my invention, the same being illustrated in central longitudinal section.

Fig. 3 is a perspective view of the fitting for connecting the stove pipe to the smoke outlet of the stove.

Fig. 4 is a perspective view of one of the sleeves employed to connect the enameled sections of the stove pipe together.

Referring more particularly to the accompanying drawing, 10 indicates a stove having its smoke outlet 11 connected with a flue opening 12 by means of a stove pipe 14. The stove pipe is formed in two right angularly arranged straight sections 15 and 16 which are connected by an elbow 17.

The stove pipe sections are manufactured by cutting stove pipe enameling stock into the desired lengths. The exterior surface of these lengths or sections are then enameled and the pipe is ready for use.

In practicing my present invention the stove pipe sections are in lengths which are multiples of one inch. That is to say, the sections are formed in one inch lengths, two inch lengths, four inch lengths, six inch lengths, twelve inch lengths and twenty-four inch lengths.

By using a combination of these sections and proper fittings a stove pipe can be assembled to fit any dimension between the smoke outlet of a stove and the flue opening without the necessity of cutting a pipe section.

To connect the stove pipe to the stove I have illustrated a fitting 18 having one end oval in form for fitting the smoke outlet sleeve 19 of the stove. The other end of the fitting 18 is of the same exterior and interior diameter as the stove pipe sections. Fittings such as the elbow 17 are likewise of the same exterior and interior diameters as the stove pipe sections. The fittings such as the elbow 17 or T's when used and the stove pipe sections are of a uniform diameter throughout their length so that when they are arranged adjacent and in axial alignment their ends will abut and a stove pipe assembly of smooth flush exterior surface will be provided.

If the distance between the upper end of the fitting 18 and the lower end of the elbow 17 is such that two standard twenty-four inch lengths will not fit between the same, a combination of various lengths may be assembled to exactly fit. Assuming that this dimension is fifty-six inches, the straight portion 15 may be made up of two twenty-four inch lengths and two four inch lengths, one of the latter being interposed between the two standard length sections and the other between the elbow and the upper end of the uppermost standard section. If this dimension between the elbow and the fitting 18 is forty-nine inches, two twenty-four inch sections with a one inch section between their ends may be provided to make up the gap. In other words any dimension between the elbow and the upper end of the fitting 18 may be equalled by a proper com-

ination of the various standard lengths which I have provided.

In order to connect the enameled sections, I have provided sleeves such as illustrated in Fig.

5 4. These sleeves are formed of black iron and of an exterior diameter that they may be telescoped into the ends of the enameled sections. The fit between the sleeves and the interior of the enameled sections is preferably a tight fit in order
10 to give the stove pipe when assembled sufficient rigidity and to tightly hold the sections with their ends in abutting relation.

I may prefer to form the enameled sections with a round hole at each end so that after the
15 pipe is assembled a hole may be formed through the adjacent sleeve to permit the insertion of a stove bolt which will act as a keeper to maintain the sections firmly in position.

When short sections, such as one, two and four
20 inch lengths are necessary, they are slipped on the sleeves to a point mid-way between the ends of the sleeve, then the ends of the sleeve are projected into the ends of the adjacent sections a distance sufficient to bring the abutting ends of
25 the sections into contact.

In practicing the invention, the enameling stock is cut into lengths which are multiples of one inch, as previously described, and enameled. The fittings are made of similar stock and likewise enameled.
30

In connecting a stove to a flue, the length of the stove pipe is determined and the proper combination of sections is then selected to meet this dimension. The fitting 18 is then fitted to
35 the smoke outlet sleeve 19. The stove pipe is then assembled by connecting the selected sections and fittings by means of the sleeves 20. A sleeve 20 may be also utilized for projection into the flue opening 12 if desired as illustrated in
40 Fig. 2.

By constructing and erecting stove pipe in accordance with my invention, it will not be necessary to cut the enameled sections. The length of these sections is such that a combination
45 thereof may be made to fit any dimension between the smoke outlet of the stove and the flue opening. The manner in which the sections are

connected enables a rigid stove pipe to be assembled which presents an entirely enameled exterior surface, which surface being smooth and flush so as to be decorative in appearance. The sleeves 20 also serve to reenforce the pipe which
5 is desirable because of the weight of enameled stove pipe and its tendency to sag when assembled in long lengths.

It will also be seen that the entire exposed surface of the pipe will be smooth and of a uniform
10 diameter entirely enameled and therefore of pleasing appearance.

While I have shown the preferred form of my invention, it is to be understood that various changes may be made in its construction by those
15 skilled in the art without departing from the spirit of the invention as defined in the appended claims.

Having thus described my invention, what I claim and desire to secure by Letters Patent is: 20

1. A connector for the sections of a stove pipe, which sections consist of a normal flexible base having a rigid frangible coating of enamel on the exterior thereof and are rigid by reason of their coating, comprising a substantially cylindrical flexible black iron sleeve telescopically and snugly held in one end of each of said sections, said sleeve being capable of distortion to accommodate itself to the irregularities of the shape of a section when inserted in the latter but without distortion of the latter, said sleeve when assembled being entirely concealed by the ends of adjoining sections.
25

2. In combination, two stovepipe sections, each consisting of a normally flexible base having a
35 rigid frangible coating of enamel on the exterior thereof and being rigid by reason of such coating, a substantially cylindrical flexible black iron sleeve telescopically and snugly held in one end of each of said sections, said sleeve being capable of distortion to accommodate itself to the irregularities of the shape of the sections when inserted therein but without distortion of the latter, said sleeve being entirely concealed by the ends of the abutting sections.
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JAMES E. PALLAS.