

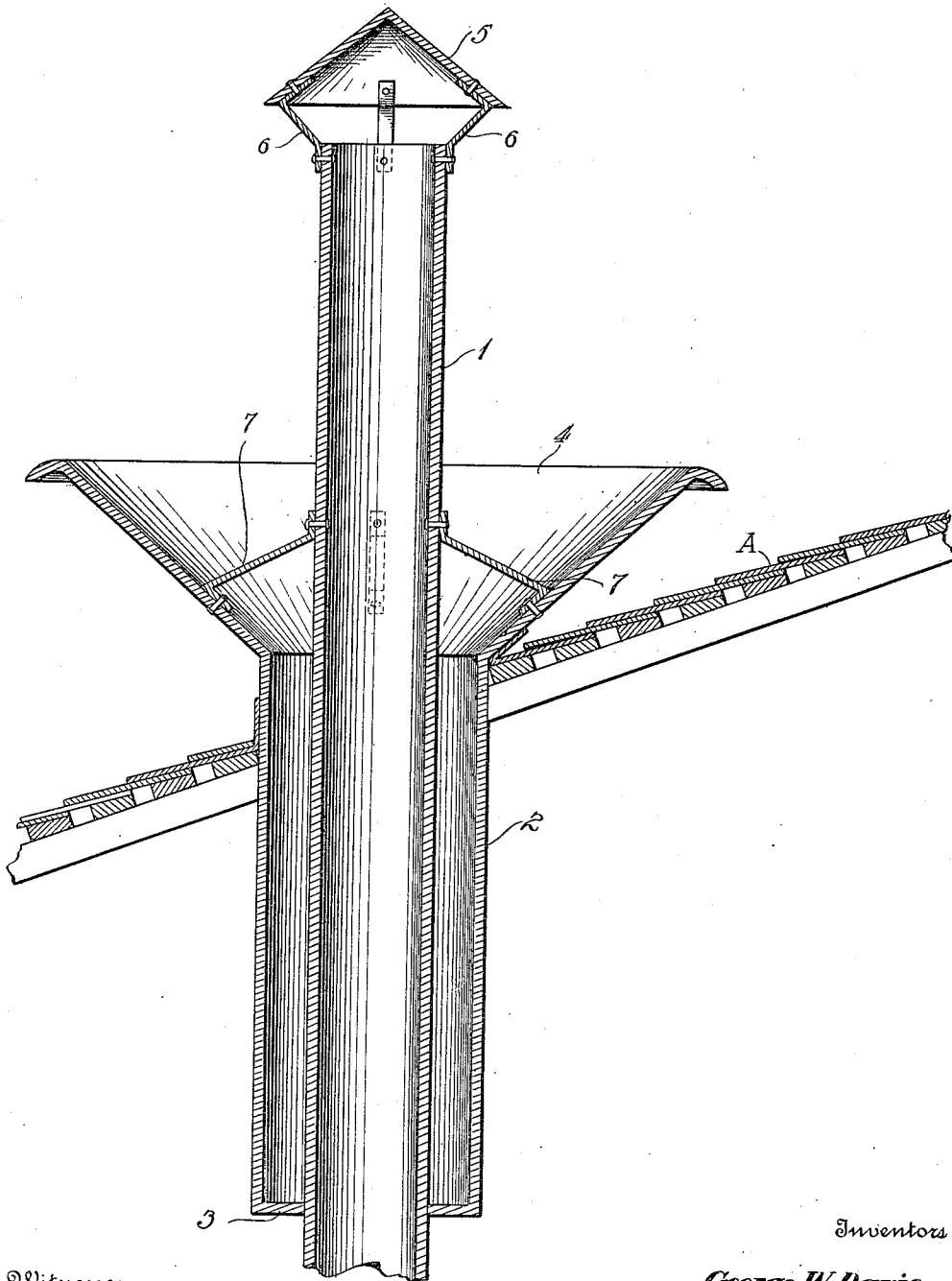
G. W. DAVIS & A. T. SHIPMAN.

FIREPROOF FLUE.

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990,477.

Patented Apr. 25, 1911.



Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE W. DAVIS, OF BLOSSOM, AND ABRAHAM T. SHIPMAN, OF HONEY GROVE, TEXAS.

FIREPROOF FLUE.

990,477.

Specification of Letters Patent.

Patented Apr. 25, 1911.

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To all whom it may concern:

Be it known that we, GEORGE W. DAVIS and ABRAHAM T. SHIPMAN, citizens of the United States, residing at Blossom and Honey Grove, respectively, in the counties of Lamar and Fannin, respectively, State of Texas, have invented certain new and useful Improvements in Fireproof Flues; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention is an improved thimble for use in connection with the smoke pipe of a stove to enable the pipe to be extended through an opening in a roof and used without danger of setting fire to the roof by the heat of the pipe, the said invention consisting in the pipe or flue having a thimble partially surrounding the same, spaced therefrom and provided with a bottom, whereby the thimble is enabled to contain a column of water surrounding the flue, the thimble being further provided at its upper end with a funnel to cause the thimble to be filled with rain water as hereinafter described and claimed.

The accompanying drawing is a vertical sectional view of a fire-proof flue constructed in accordance with our invention, showing the same extending through a shed roof.

In accordance with our invention the stove pipe or flue 1 is provided at the point where the same extends through an opening in the roof A with an outer tubular casing or thimble 2, the thimble being adapted to pass through and fit the opening in the roof. The diameter of the thimble exceeds that of the stove pipe so that a space is formed between them and surrounding the pipe, the said thimble or casing being concentrically disposed with reference to the stove pipe and having a bottom 3, through which the stove pipe extends and which forms a water-tight joint with the stove pipe so that the said thimble or casing is adapted to contain a quantity of water surrounding that portion of the pipe which extends through the roof. The space between the pipe and thimble thus forms an annular receptacle.

At the upper end of the thimble or casing

is a funnel 4, which serves to collect rain water and direct it into the said thimble or outer casing so that in an ordinary season a water jacket will be maintained around that portion of the smoke pipe which extends through the flue. A hood or spark arrester 5 is shown above the upper end of the stove pipe, spaced therefrom and connected thereto by braces 6. The stove pipe is connected to the upper portion of the funnel 4, by means of braces 7, the funnel forming an enlarged base around the stove pipe or flue and to which the lower ends of the braces are secured. Hence the stove pipe or flue is firmly secured in the thimble or outer casing and there is no danger of its working loose.

It will be understood that by reason of the provision of the water jacket around that portion of the pipe or flue which extends through the roof all danger of igniting the roof by heat of the smoke pipe or flue is entirely obviated. In the event that rain water should be insufficient at any season to keep the outer casing or thimble filled with water, water may be readily supplied to the same by means of a hose or otherwise, from time to time.

Having thus described our invention, we claim:—

A device of the class described adapted to extend downwardly through the roof of a house, said device comprising a thimble open at its upper end, provided at its upper end with a funnel and formed with an opening through its bottom; a smoke pipe extending through the bottom of the thimble and up through and projecting above the upper end of the thimble, said smoke pipe being spaced from the sides of the thimble forming with the latter a receptacle adapted to contain a column of water around the smoke pipe, and radially disposed braces attached to the funnel and also to the smoke pipe.

In testimony whereof, we affix our signatures in presence of two witnesses.

GEORGE W. DAVIS.
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Witnesses:

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