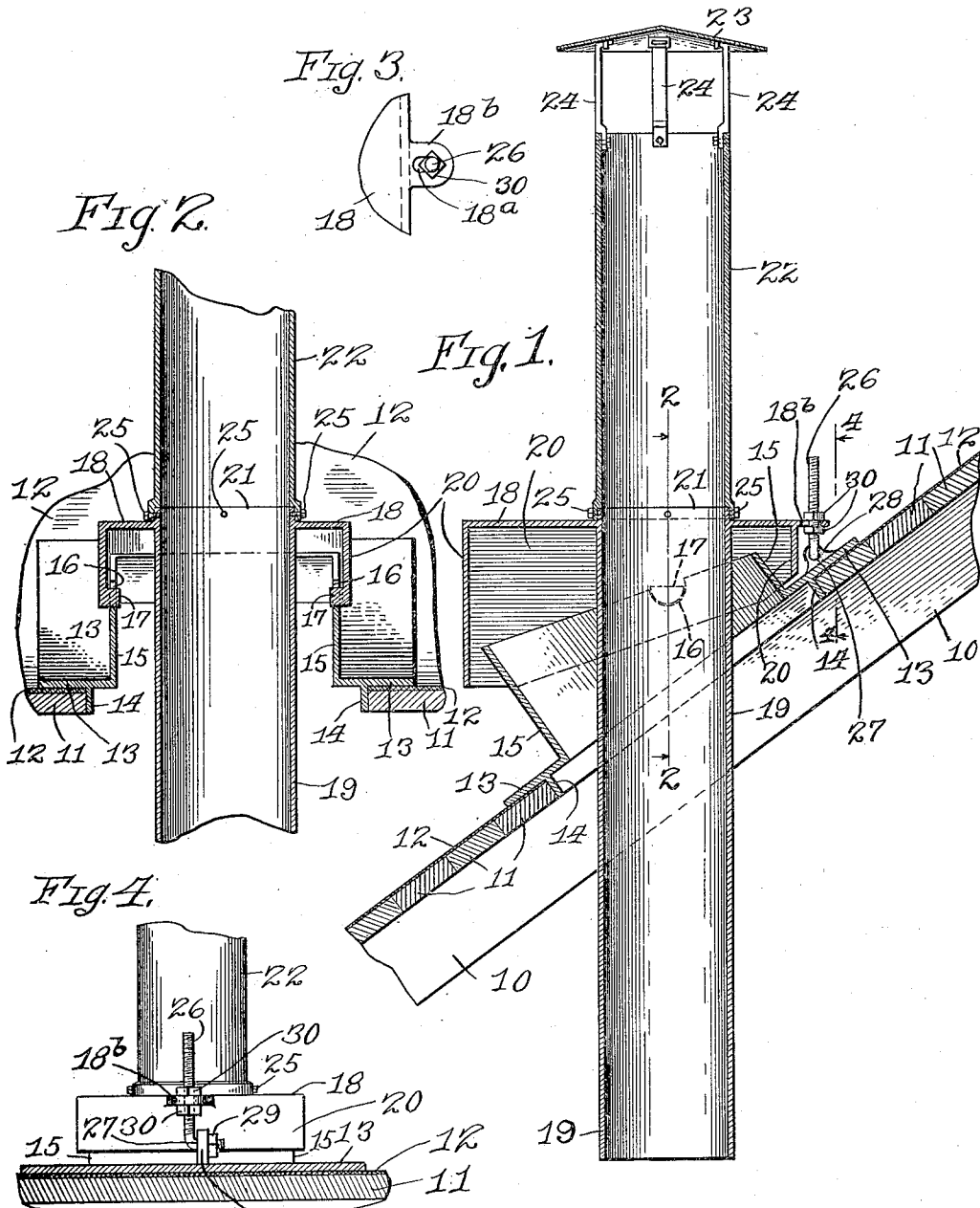


1,138,726.

Patented May 11, 1915.



Witnesses:
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UNITED STATES PATENT OFFICE.

MAURICE CARNEY, OF CHICAGO, ILLINOIS, ASSIGNOR TO PAUL DICKINSON, INCORPORATED, OF CHICAGO, ILLINOIS, A CORPORATION.

CHIMNEY.

1,138,726.

Specification of Letters Patent.

Patented May 11, 1915.

Application filed December 12, 1913. Serial No. 806,259.

To all whom it may concern:

Be it known that I, MAURICE CARNEY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Chimneys, of which the following is a specification.

My invention relates to an improvement in the class of adjustable chimneys adapted particularly for use on slope roofs, and has for its object to provide a construction of metal chimney and metal supporting means therefor which will adapt the chimney to be easily adjusted to an approximately vertical position, regardless of the slope or pitch of the roof by which the chimney is supported, thus rendering my improved chimney capable of universal use, as, for example, the supply department of a railroad may keep chimneys of my improved construction on hand in any desired quantity, regardless of the pitch or slope of roofs on the buildings to which they are to be attached.

Other objects of the invention will appear from the following description of the preferred embodiment of the invention, which is also shown in the drawing forming a part of the specification.

In the drawings,—Figure 1 is a vertical sectional view through my improved chimney and through the roof of a building to which the same is shown attached; Fig. 2 is a sectional view, taken approximately on line 2, 2 of Fig. 1 with parts broken away; Fig. 3 is a broken detail plan view of a portion of the pipe support or slope top; and Fig. 4 is an elevation view of the adjustable pipe support, approximately on line 4, 4 of Fig. 1.

My improved chimney is preferably constructed for the most part of gray or cast iron, this material being preferred because of its ability to resist the acid action of the fumes from coal stoves or furnaces. In the drawings, the chimney and its support illustrated are shown attached to a slope roof, one of the supporting members or rafters of which is indicated by the reference character 10, the roof covering being indicated at 11 and shown in the drawing as consisting of strips of board or sheeting extending transversely of the rafter 10, to form a covering over which some suitable waterproof material, as indicated at 12, is attached. In the installation of the chimney, a hole is cut

or formed in the roof, of a size suitable to accommodate a perforated roof plate, which latter is formed preferably of gray or cast iron. This roof plate consists of a peripheral plate, which is indicated by the reference character 13, having a depending flange integral therewith and adapted to register with the periphery of the opening in the roof, as indicated by the reference character 14. In the roof plate 13 an opening is provided, around the periphery of which on the plate 13 arises a flange 15, perpendicular to the plate 13. To adapt the pipe support which forms a cover over the opening in the roof plate 13 to cooperate with the perpendicular extension 15 thereon, the top of the extension 15 is formed at an angle to the plate 13, as illustrated in Fig. 1. At the upper extremity of the portion 15 on the roof plate and diametrically opposed to each other, are formed seats or bearings, indicated at 16, adapted to receive the inwardly projecting trunnions 17, preferably formed integral with the cooperating slope top or pipe support 18, which is in the form of a plate preferably integral with a section of the chimney 19 and extending at approximately right angles to the chimney walls to form a cover over the opening in the top of the flange 15 on the roof plate 13.

In order to render the pipe support or slope top 18 an effective shield or cover over the opening in the roof plate to keep out the weather and yet permit ventilation, side and end walls are formed thereon, as indicated at 20. These walls 20 are of somewhat irregular depth, in order to conform to the upper angular location of the roof plate 13, as illustrated in Fig. 1, and it is essential only that they extend downwardly in the form of a shield over the upwardly extending section 15 through which the adjustable chimney 19 passes. The section 19 of the chimney formed integral with the pipe support 18 preferably has a flange extending upwardly therefrom, as indicated at 21, being adapted to receive and support the telescoping section 22 of the chimney, which forms the chimney proper or the upper projecting section thereof, and is provided with the upper cowl 23 spaced above the upper extremity of the chimney by the supports 24. The upper section 22 may be secured to the section 19 of the chimney by suitable bolts, as indicated at 25, by which both sec-

tions 19 and 22 of the chimney are rigidly secured together and adapted to be rocked with the support or slope top 18, which latter, as described, is pivotally secured by trunnions 17 in the bearings 16 on the roof plate flange, the relative position of this pipe support and the roof plate being determined by some suitable locking means, as for example a threaded adjusting bolt 26 pivoted as indicated at 27 to a lug 28 formed integral with the cast roof plate 13. A convenient means of securing the threaded bolt 26 to the lug 28 is that illustrated, the bent end of the bolt passing through an aperture in the lug 28 and being threaded on its extremity and provided with a nut, as indicated at 29. The threaded upper extremity of the bolt 26, which for purposes of adjustment is preferably threaded throughout a considerable portion of its length, extends through an elongated slot 18^a in a branch or arm 18^b which is formed preferably integral with the pipe support plate 18. Threaded nuts 30 on either side of the lug 18^b on the pivoted bolt 26 enable the necessary adjustments to be made to anchor the plate 18 in any desired position within the limits of the length of the bolt, as the pipe support 18 is rocked on trunnions 17 in relation to the roof plate 13. By the construction described, the roof plate 13 may be secured to a roof of any desired pitch or angle, and the pipe support adjusted in relation thereto in order to bring the chimney to the vertical position, so that a pipe leading from a stove or other heating appliance within the building may be readily connected with the lower section 19 of the chimney. In installing my improved chimney, it will be obvious that the roof plate 13 is first secured in position, after which the pipe carried by the pipe support 18 is placed in position on the roof plate with the trunnions in their bearings on the flanged upper portion of the roof plate 13. The chimney may then be rocked to the vertical or any desired position within the limits of adjustment provided, and then locked permanently in this relation to the roof plate by means of the threaded locking bolt 26 and the nuts 30 thereon cooperating with the extension 18^b on the pipe support.

It will be apparent that throughout the ordinary limits of adjustment, the shielded pipe support will cooperate with the flanged plate 13 to keep out rain or snow and to an

extent protect the opening around the pipe from permitting the direct entry of air currents, and at the same time the roof plate and the pipe support will form an efficient ventilating means, because of the space in the plate 13 surrounding the pipe and the opening between the pipe support and the flanged roof plate, which will permit currents of air to pass upwardly around the pipe and out through the flange 15 and the opening between the same and the flanged pipe support.

In order that the invention might be understood, the details of the preferred embodiment have been specifically shown and described, but it will be apparent that the invention may be practiced by varying the details of construction, without departing from the purpose and spirit thereof.

I claim:

1. A chimney comprising a pipe section provided with an integral radially-extending plate forming a pipe support having a downwardly-extending shield, a roof plate for a slope roof provided with an interior opening adapted to receive the chimney pipe and having an upwardly-extending shield on the interior of said pipe support shield, and pivotal connections between the pipe support shield and the roof plate shield comprising diametrically opposed trunnions cast integrally and extending on to the interior of the walls of said pipe support shield, said roof plate being provided with sockets for said trunnions.

2. A chimney comprising a pipe section provided with an integral radially-extending plate forming a pipe support having a downwardly-extending shield, a roof plate for a slope roof provided with an interior opening adapted to receive the chimney pipe and having an upwardly-extending shield on the interior of said pipe shield, and pivotal connections between the pipe support shield and the roof plate shield comprising diametrically opposed trunnions on one of said shields cooperating with sockets on the other of said shields.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 2nd day of December A. D. 1913.

MAURICE CARNEY.

Witnesses:

J. A. MEADEN,

A. J. SCHOENECKE.