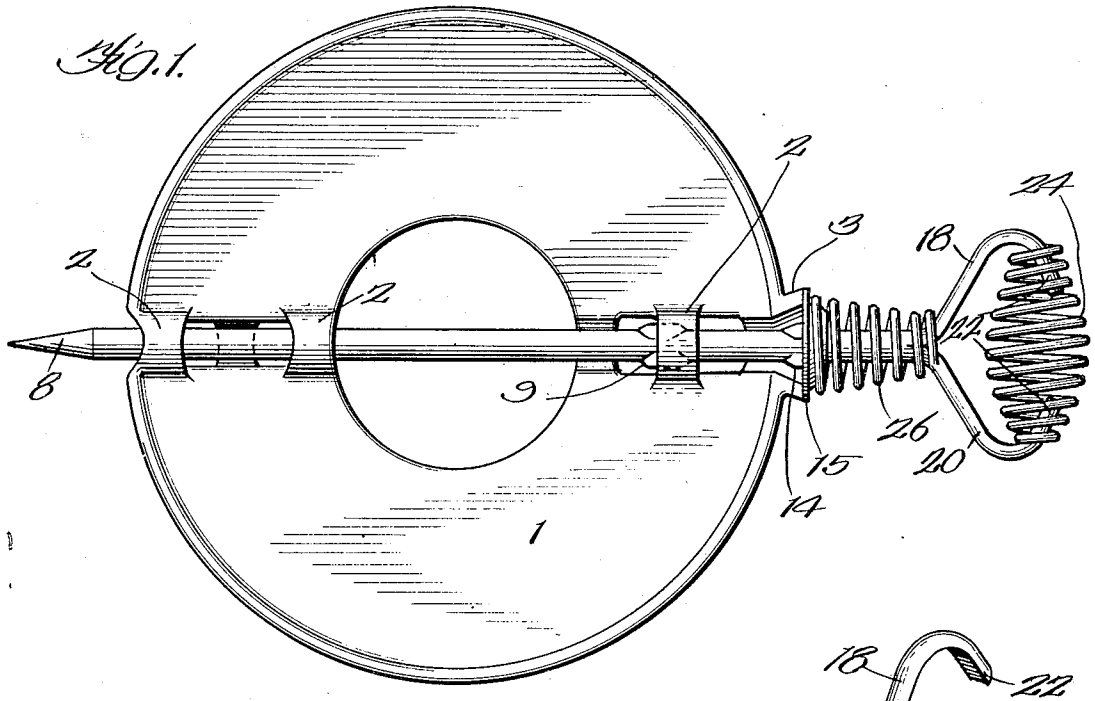
Dec. 26, 1922. 1,439,813.

W. A. HANCE.

STOVEPIPE DAMPER.

FILED AUG. 31, 1921.

Fig. 1.



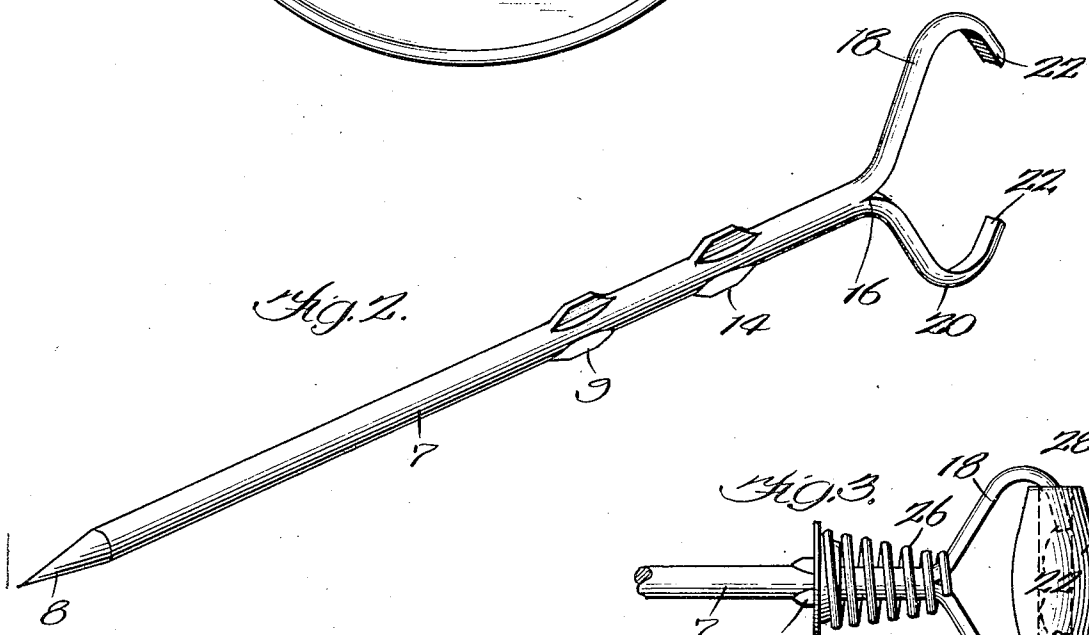


Fig. 2.

Fig. 3.

Inventor:
Willard A. Hance
By Cheever & Cox
Attys.

Patented Dec. 26, 1922. 1,439,813

UNITED STATES PATENT OFFICE.

WILLARD A. HANCE, OF FREEPORT, ILLINOIS, ASSIGNOR TO STOVER MANUFACTURING & ENGINE CO., OF FREEPORT, ILLINOIS, A CORPORATION OF ILLINOIS.

STOVEPIPE DAMPER.

Application filed August 31, 1921. Serial No. 497,131.

To all whom it may concern:

Be it known that I, WILLARD A. HANCE, a citizen of the United States, residing at Freeport, in the county of Stephenson and State of Illinois, have invented a certain new and useful Improvement in Stovepipe Dampers, of which the following is a specification.

This invention relates to stove pipe dampers of the general type shown in Patent 541,162, to A. S. Held, dated June 18, 1895. The object of the invention is to improve the device of said patent by providing a novel form of spindle and handle therefor which is both cheaper to make and more efficient and satisfactory in use.

Referring to the drawing in which like numerals represent the same parts throughout the several views,

Figure 1 shows a damper equipped with the device of this invention.

Figure 2 is a perspective view of the spindle and handle device attached thereto removed from all other parts.

Figure 3 shows the device equipped with a wooden handle.

As in said prior patent, the numeral 1 indicates the damper blade which is formed with the usual central opening from which radiate oppositely disposed spindle bearings 2 of semi-circular form so that the round spindle 7 can turn freely in them when required. 3 indicates the outer bearing of the blade of sufficient size to allow the spindle to pass through it, as fully set forth in said prior patent.

Detachable spindle 7 is sharp pointed to adapt its pointed end 8 to readily penetrate a stove pipe not shown. The spindle 7 is provided intermediate of its length with a pair of locking lugs 9 corresponding to those of the prior patent adapting it to interlock with one of the bearings 2 as shown in Figure 1. It is also provided with another pair of lugs 14 adapted to interlock with the washer or collar 15, resting upon the bearing 3. The right hand or operating end of the spindle beyond lugs 14 is constructed quite differently from the device of said prior patent, in that it is divided at the point 16 into two reversely curved branches 18 and 20, having aligned terminal ends 22 pointed toward each other which enter the coiled spring handle 24 of the type shown in Figure 1 which replaces the unsatisfactory cylindrical wooden handle of said prior patent. In assembling the device a conical coiled spring 26 corresponding to spring 18 of the prior patent is inserted about the spindle 7 adjacent to the point 16 heretofore indicated, the same taking bearing at one end against the curved members 18 and 20 and at the other end against the member 15, heretofore referred to. The spindle 7 including the curved arms 18 and 20 is preferably made of spring steel in the form of one solid rod, split and bent to form the arms 18 and 20, as described. By this construction whenever a device is assembled as shown in the drawing and the spring 26 is under compression, as fully set forth in said prior patent, the pressure of the right hand end of the springs 26 on the members 18 and 20 tends to force them together and onto the spring handle 24, thus more securely holding it in place.

Figure 3 of the drawing merely shows the device of Figure 1 with the wooden handle 28 substituted for the spring handle 24.

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

1. In a device of the class described, a damper plate, a pivoting spindle extending across the damper plate, having one end extending beyond it, the last mentioned end of the spindle being divided into oppositely disposed reversely curbed members terminating in aligned ends pointed toward each other, a handle member between the free ends of said reversely curved members entered at its ends by said ends of the curved members and a coiled spring embracing the spindle bearing at one end against said reversely curved parts of the spindle and bearing at the other end on the damper plate, for the purposes set forth.

2. In a device of the class described, a damper plate, a pivoting spindle extending across the damper plate, having one end extending beyond it, the last mentioned end of the spindle being divided into oppositely disposed reversely curved members, a coiled wire handle member between the free ends of said reversely curved members entered at its ends by said curved members and a coiled

spring embracing the spindle bearing at one end against said reversely curved parts of the spindle and bearing at the other end on the damper plate, for the purposes set forth.

3. An article of manufacture comprising a damper spindle made of spring material split at one end and bent to form two reversely curved members terminating in aligned ends pointed toward each other between which a spindle handle proper may be inserted.

In witness whereof, I have hereunto subscribed my name in the presence of two witnesses.

WILLARD A. HANCE.

Witnesses:
V. L. MINNIER,
WM. KAUTENBERG.