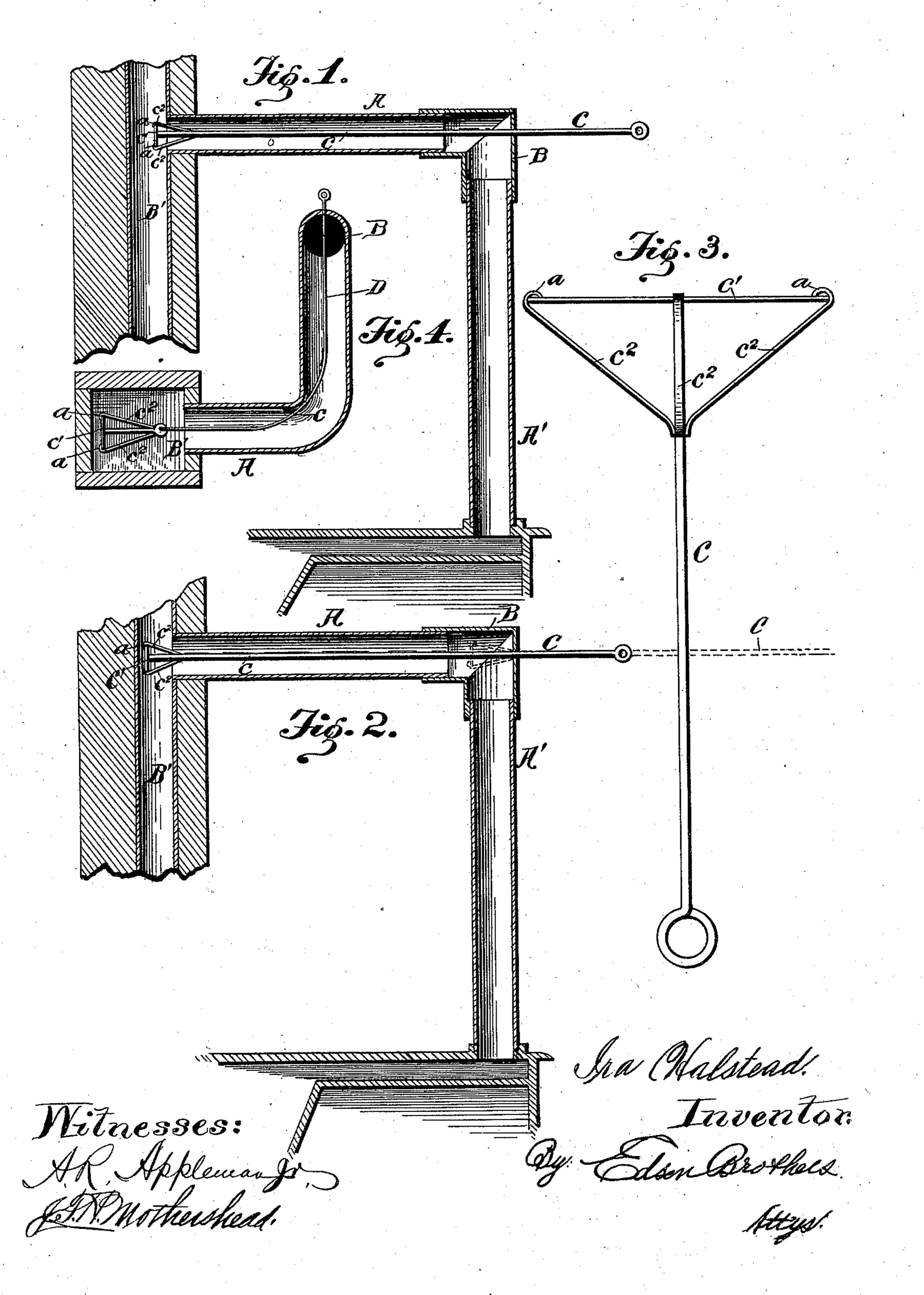
I. HALSTEAD. FLUE OR STOVEPIPE CLEANER.

No. 547,350.

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United States Patent Office.

IRA HALSTEAD, OF MASON CITY, ILLINOIS.

FLUE OR STOVEPIPE CLEANER.

SPECIFICATION forming part of Letters Patent No. 547,350, dated October 1, 1895.

Application filed December 1, 1894. Serial No. 530, 548. (No model.)

To all whom it may concern:

Be it known that I, IRA HALSTEAD, a citizen of the United States, residing at Mason City, in the county of Mason and State of Illinois, have invented certain new and useful Improvements in Flue or Stovepipe Cleaners, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention has relation to improvements in flue and stovepipe cleaners; and the novelty consists in the peculiar and novel construction of parts, as will be hereinafter fully described, and particularly pointed out in the

15 claim.

The primary object of my invention is to provide a device of the class above named, to effectually clean and thoroughly remove soot or other matter from a stovepipe or other 20 flue without removing the pipe from the stove or the aperture in the wall, and which can be manufactured for a trifling cost.

In the accompanying drawings, which form a part of this specification, and in which I 25 have shown an embodiment of my invention, Figure 1 is a longitudinal vertical sectional view of a stovepipe and portions of a flue and stove, showing my improved cleaner in a position therein for operation. Fig. 2 is a 30 similar view showing the position of the cleaner in solid lines when not in use and in dotted lines in a position for the discharge of the soot into the stove. Fig. 3 is a side view of the cleaner. Fig. 4 is a view taken horizon-35 tally through an elbow-shaped stovepipe, showing my scraper provided with a flexible wire operating-rod to enable it to bend in the pipe and to adapt the cleaner to operate in irregularly-shaped pipes.

Referring by letter to the drawings, in which like letters of reference indicate corresponding parts in all the figures, A A' designate two sections of a stovepipe of the ordinary pattern, which are connected at their meeting ends by an elbow B. The lower end of the section A' connects with the stove, while the outer end of the section A commu-

nicates with a flue B'.

C designates my improved cleaner or scraper, which consists of a disk or plate C' and an operating rod or handle c, which is affixed at one end to the center of the disk.

C² designates the radial strengthening braces, preferably three in number, each of which is secured at one end to the outer edge 55 of the disk C', and at its outer end to the rod c, as shown, the function of these braces being to thoroughly strengthen the disk and to prevent it from becoming bent out of shape or disconnected from the operating-rod. It 60 will be observed in providing these braces, I first solder or otherwise secure them at one end to the side of the disk that faces the flue and a short distance from the outer edge of the disk, and the ends are bent back on the 65 rod c, to which they are secured by solder or in any other desired manner. By constructing the braces in this manner I form projections at suitable points a around the periphery of the disk or plate, which thus enables it 70 to be readily and easily moved back and forth, and avoid catching on the upturned ends of the pipe-sections, as will be readily understood.

The operation of my invention is as fol- 75 lows: In order to clean an ordinary stovepipe where two sections are employed, it is necessary to first insert the cleaner in the horizontal section, so that the disk will assume a vertical position and rest with its 80 side against the rear wall of the flue and allow the operating-rod to extend through the section. In the elbow is provided an opening through which the rod passes, and this end of the rod is extended a short dis- 85 tance beyond the elbow and is formed into aloop to provide a handle. The operatingrod can be drawn forward until the disk reaches the vertical pipe, where the soot will fall into the section A' and thence to the 90 stove, thus thoroughly and entirely cleaning the stovepipe, as shown in Fig. 2.

If there are a number of sections of a stovepipe which are connected by a series of elbows, I propose to use a piece of cable or 95 other flexible wire, which extends through the pipe and elbows and is attached to the disk, and then attach to the outer end of the flexible wire a stiff wire, as shown by Fig. 4. I am thus enabled by means of this soft 100 flexible wire to move the disk or cleaner back and forth in the pipes and flues and around

the angles of the elbows.

Slight changes can be made in the form

and proportion of parts of my invention without departing from the spirit or gist thereof.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

As a new article of manufacture, the stove pipe cleaner herein shown and described comprising a disk C, a central operating stem, a series of braces rigid with said stem and joined to the disk to form lifting knobs or shoulders which extend beyond the edges of

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the disk, and a flexible continuous rod or wire connected to the stem and adapted to bend in passing around angles or corners of an irregular stove pipe, substantially as and 15 for the purposes described.

In testimony whereof I affix my signature in presence of two witnesses.

IRA HALSTEAD.

Witnesses:

JAMES R. TRENARY, ALONZO THOMAS.