

L. M. MADSON.

HEATING ATTACHMENT FOR STOVES.

No. 178,069.

Patented May 30, 1876.

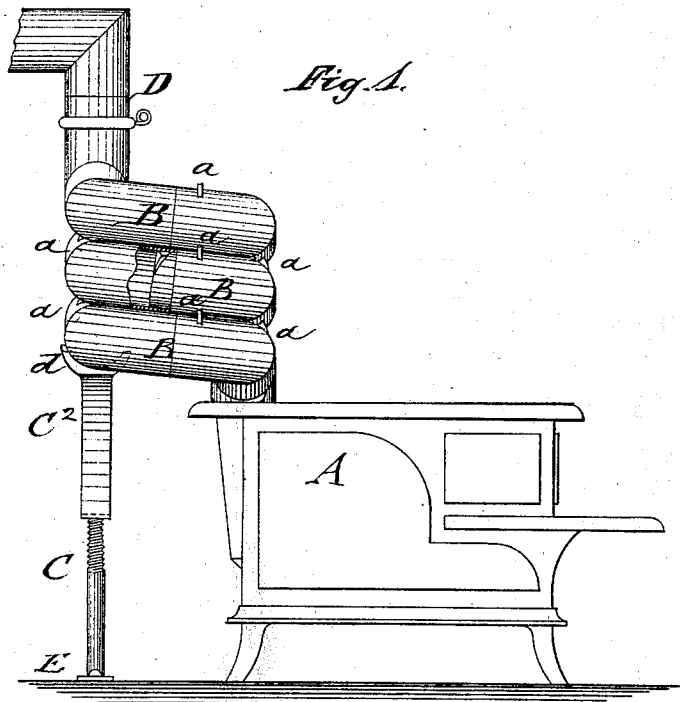
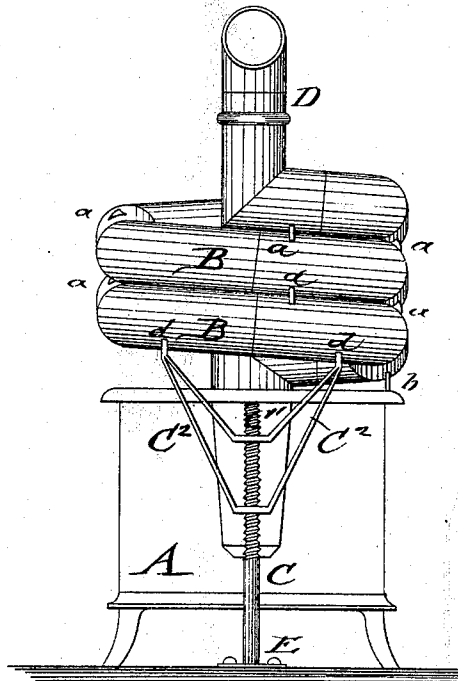


Fig. 2.



WITNESSES:

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LARS M. MADSON, OF DANEVILLE, DAKOTA TERRITORY.

IMPROVEMENT IN HEATING ATTACHMENTS FOR STOVES.

Specification forming part of Letters Patent No. **178,069**, dated May 30, 1876; application filed April 4, 1876.

To all whom it may concern:

Be it known that I, LARS M. MADSON, of Daneville, Turner county, Dakota Territory, have invented a new and Improved Heating Attachment to Stoves, of which the following is a specification:

Figure 1 represents a side elevation of a stove with my improved heating attachment, and Fig. 2 a rear elevation of the same.

Similar letters of reference indicate corresponding parts:

The invention relates to an improved heating attachment to cooking and heating stoves, by which the heat of the fire gases is more completely utilized before escaping into the chimney; and the invention consists of a sectional pipe, made of jointed elbows at suitable inclination, and supported on the stove and on an adjustable brace-standard.

In the drawing, A represents any heating or cooking stove of suitable construction, to which my heating attachment is applied by being interposed between the stove and pipe leading to the chimney. The heating attachment consists of a coil of pipe-sections, B, made of elbows, jointed by a raised button and groove. The elbows may be of angular or rounded shape, as desired, to form an oblong or oval coil attachment, and are made throughout of slight upward inclination or pitch, to admit the easier passage of the smoke and gases. Each pipe-section B is provided with a projecting rest or bearing, *a*, at the upper part, on which the superposed pipe-sections rest, the lower section being seated by a supporting-bearing, *b*, on the stove. The top pipe-section, that connects with the chim-

ney, has a damper, D, to regulate the escape of the fire gases. The entire coil is supported on a standard, C, constructed of a screw-post and adjustable braces C², with forked rests *d*, on which the lowermost pipe-section is placed. The rests *d* are arranged at different heights, to correspond to the inclination or pitch of the pipe-section. The brace part C² may be set higher or lower, according to the height of the stove, by turning the screw-post D, the lower part of which turns by a collar or groove in a base-plate, E, of the floor.

The heating-coil may be cleared from soot and ashes by detaching the pipe-sections, which are readily taken apart and connected at their joints.

The sectional heating attachment utilizes the heat of the gases of combustion in their passage through the same without the loss of a large percentage of heating capacity escaping through the chimney.

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

1. The pipe-sections having projecting rests or bearings at the upper parts for the superposed sections, substantially as specified.

2. The combination of the coil of pipe-sections with adjustable brace-rest pieces of different height, corresponding to the pitch of the pipe-sections, and with a screw post or standard, substantially as specified.

LARS MATHIAS MADSON.

Witnesses:

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