(No Model.)

J. N. YOUNG.

COMBINED VENTILATOR AND CONDUCTOR.

No. 245,689. Patented Aug. 16, 1881.

Fig. 1.

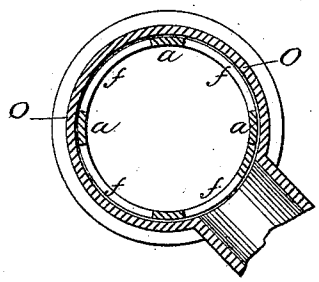


Fig. 2.

Witnesses.

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UNITED STATES PATENT OFFICE.

JOHN NELLES YOUNG, OF SACRAMENTO, CALIFORNIA.

COMBINED VENTILATOR AND CONDUCTOR.

SPECIFICATION forming part of Letters Patent No. 245,689, dated August 16, 1881.

Application filed April 29, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN NELLES YOUNG, a citizen of the United States, residing at the city of Sacramento, in the county of Sacramento, State of California, have invented certain new and useful Improvements in a Combined Ventilator and Conductor, to be used in connection with stoves and ranges, for the purpose of carrying off and conducting into the stove-pipe or chimney the smoke, steam, vapors, and odors, and, when desired, the surplus heat arising from such stoves and ranges.

My invention relates to improvements in ventilating the room or structure in which a stove or range is used for cooking and other purposes, by conducting the heat arising from such stove or range into the stove-pipe or chimney, and saves the necessity for much other ventilation by acting as a conductor in carrying all smoke, steam, vapors, odors, and other noxious or offensive effluvia arising from such stoves or ranges, when in domestic or other use, into the stove-pipe or chimney. I attain these objects by the implements illustrated in the accompanying drawings, in which—

Figure 1 is a cross-section, showing the manner of connecting the pipe from the conductor with the stove-pipe, and Fig. 2 shows my invention adjusted to a stove or range.

It is constructed in the following manner: A raised cover is made to suit the whole or such part of the stove or range as may be desired. This cover is represented by C. The lower rim, *b*, of this cover may be circular, elliptical, oblong, square, or any other form to suit the form of the stove or range upon which it is to be used, and of sufficient perpendicular height to admit the use of such utensils as are to be used on the stove or range under the cover. From the top of the rim *b* the cover C converges at an angle of about seventy degrees, and terminates at the top in a pipe, *p*, of about one-half the diameter of the stove-pipe P or flue of the chimney with which the stove or range is connected. Where the top of the stove or range is level a convenient length for the pipe *p* connected with the top of the cover C will be about two feet, and it may be permanently attached to the cover. This pipe *p* is made to fit closely, but loose enough to slide easily into, another pipe of about the same length, represented at P *p*, and continuing the pipe from the top of the cover in a perpendicular direction. The pipe P *p* is turned by an elbow or rounded joint, *e*, and continued to and connected with the stove-pipe or chimney-flue P, with which the stove or range is connected. Between the joint *e* and the pipe or flue P is a damper, A. When the pipe P *p* conducts to a stove-pipe it may be connected therewith in the following manner, to wit: by cutting circular or oblong pieces out of the stove-pipe, as shown at *f*, *f*, *f*, and *f*, Fig. 1, leaving sections or bars *a a* standing to support the stove-pipe. The openings *f f* are to allow the pipe P *p* to conduct into the stove-pipe P. The openings *f f* are inclosed by a short pipe, O, of sufficient length to cover the openings, fitting closely about, but sliding easily around, the stove-pipe P. To the inclosing-pipe O the conducting-pipe P *p* is permanently attached.

The inclosing-pipe O may have its upper and lower edges rounded and smoothed by small rims *k k*, and be held in position by two bands around the stove-pipe, one above and one below, as shown at *i i*. These bands *i i* have their edges next to the inclosing-pipe O also turned and smoothed, thus allowing the whole conductor, including the inclosing-pipe O, to be turned around any direction over the stove or range. This lateral motion allows the conductor to be used on any part of the stove or range when it is not made large enough to cover it wholly without moving it, and, when desired, permits it to be turned off from the stove entirely.

The pipe *p*, fitting and sliding into the pipe P *p*, allows the cover C to be elevated by the handle E to any required height, and kept in such position by placing one of the hooks H H on one of the bands which surround the stove-pipe, as shown at B.

On several, and if desired all, of the sides and ends of the cover C are doors on hinges, as shown at D D, which permit access to the inside of the cover without raising it. Beneath the doors are dampers *d d*, which afford an opening for a broiler-handle, if needed, also for draft.

The cover C may be supported by adjustable legs, and the whole instrument may be made of

Russia iron or any similar suitable materials, except the damper A, which is constructed as other dampers.

I claim as new and original the following:

1. The cover C, provided with perpendicular rim *b*, and doors and openings D *d*, the lower edge of said rim resting upon the top of the stove, thus preventing the entrance of the outside air, as specified.

2. The combination of a series of rings or bands, B, surrounding the pipe, and the cover C, provided with hooks *h*, as herein set forth, for the purpose specified.

3. The raised cover C, with the doors D D, the dampers *d d*, the hooks H, and the supported bands or rings, as shown at B, all substantially as set forth and described.

JOHN NELLES YOUNG.

Witnesses:
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