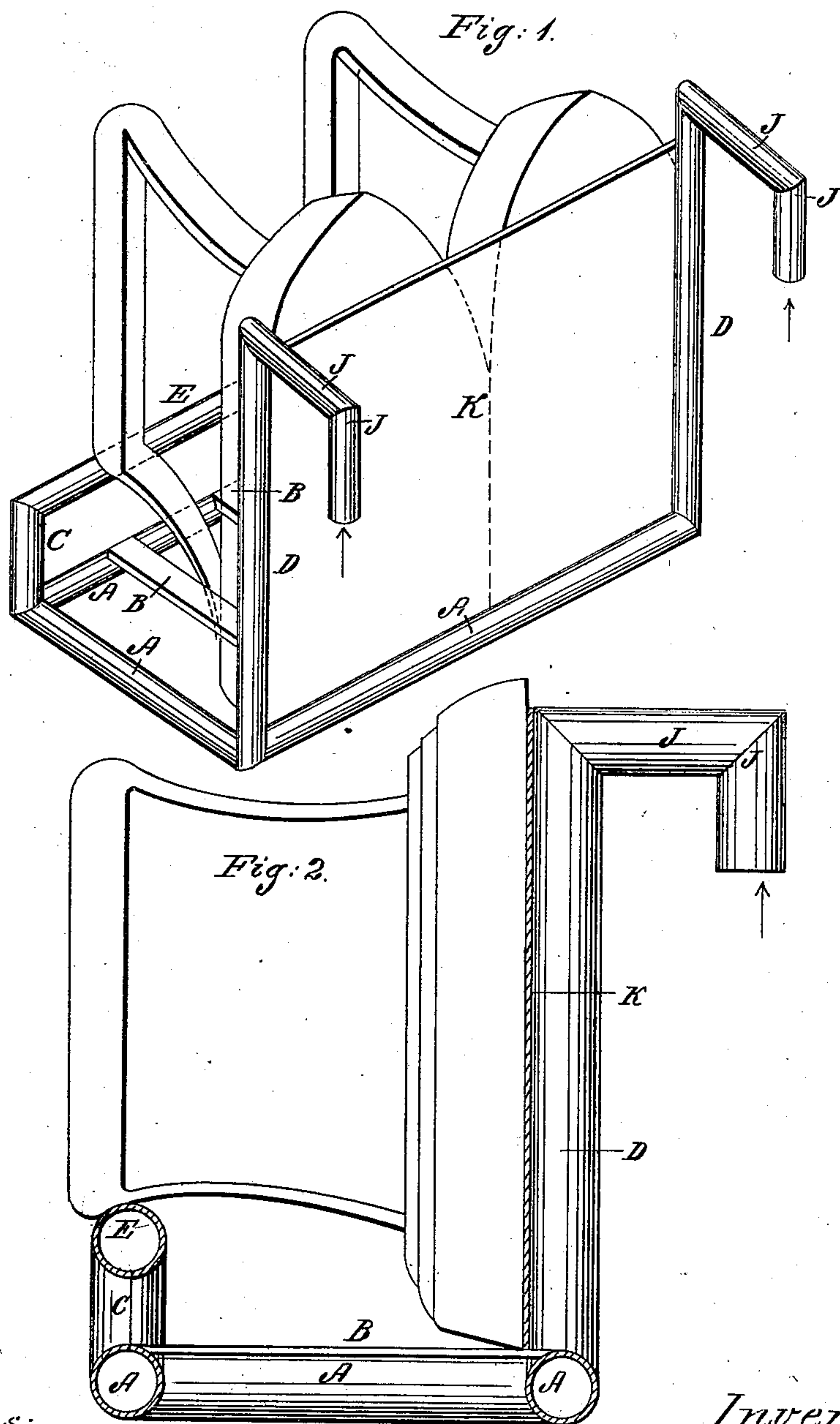


W. J. ANDREWS.

Flat Iron Heater.

No. 28,546.

Patented June 5, 1860.



Witnesses:

R. S. Spurr.
J. W. Coomb,

Inventor:

William J. Andrews
per Munnif &
attorneys.

UNITED STATES PATENT OFFICE.

WM. J. ANDREWS, OF COLUMBIA, TENNESSEE.

SAD-IRON HEATER.

Specification of Letters Patent No. 28,546, dated June 5, 1860.

To all whom it may concern:

Be it known that I, WILLIAM J. ANDREWS, of Columbia, in the county of Maury and State of Tennessee, have invented a new and Improved Sad-Iron Heater; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1, represents a perspective view of my improved heater, showing the form and construction of the same, and two sad-irons resting on it, as in the act of being heated. Fig. 2, a vertical cross section taken through the heater of Fig. 1, showing an iron, resting in the heater, drawn in red lines.

Similar letters of reference indicate corresponding parts in both figures.

This invention is a novel device to be applied to a fire grate of the ordinary form for holding sad-irons to be heated. The invention provides for heating the irons rapidly, without bringing their surfaces in contact with the flame or smoke of the burning coal. The handles of the iron are in a measure protected from the heat, while the body of the iron will be brought in such a relation to the heated coals, as to receive a direct heat therefrom. The device is simple, can be made cheap, and is very portable.

The invention consists in constructing a rack of hollow metal tubes of a suitable strength, and arranged in such a manner that the tubes will serve to hang the rack to the top bar of an ordinary grate, and to conduct hot air through them from the fire and give out heat to the iron or irons that are placed on the rack independently of the direct heat the bottoms of the irons receive from the fire; and in combining with such, a rack a guard plate for protecting the irons from burning or being smoked as will be hereinafter described, represented and specified.

To enable those skilled in the art to fully understand my invention I will proceed to describe its construction and operation.

A quadrangular frame A, formed with four metal tubes and transverse slats B, serves to rest the rear part of the body of the sad-iron on, as clearly shown in the drawings, and from each corner of this frame, proceed up perpendicular tubes C, C, and D, D, the tubes C, C, are quite short and are connected together by a longitudinal tube E, which serves as a resting bar for the handles of the irons; this tube E, and also the tubes D, D, communicates with the tubes of the frame A. The perpendicular tubes D, D, proceed up from the frame A, a suitable distance, and have right angular tubes J, J, connected to their ends which serve to attach the posts to the grate bars. These are simply hung over the bars, the tubes J, J, projecting down into the fire.

K, is a sheet metal plate that passes across from one tube D, to the other, D, and serves a very important object, in preventing the bottom surfaces of the irons from coming in contact with the fire in the grate, and to prevent ashes &c from falling against the iron and soiling its surface.

The tubes of which the main portion of the rack is formed, all communicate with each other, and with those lettered J, J, and the hot air is conducted through them and contributes materially to its more rapid heating.

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

The described rack for sad-iron heater, constructed and operating in the manner substantially as described.

WM. JNO. ANDREWS.

Witnesses:

JAMES J. THOMSON,
WM. D. GARRETT.