

E. G. ADAMS.  
SOLDERING IRON FURNACE.

No. 178,891.

Patented June 20, 1876.

Fig. 1

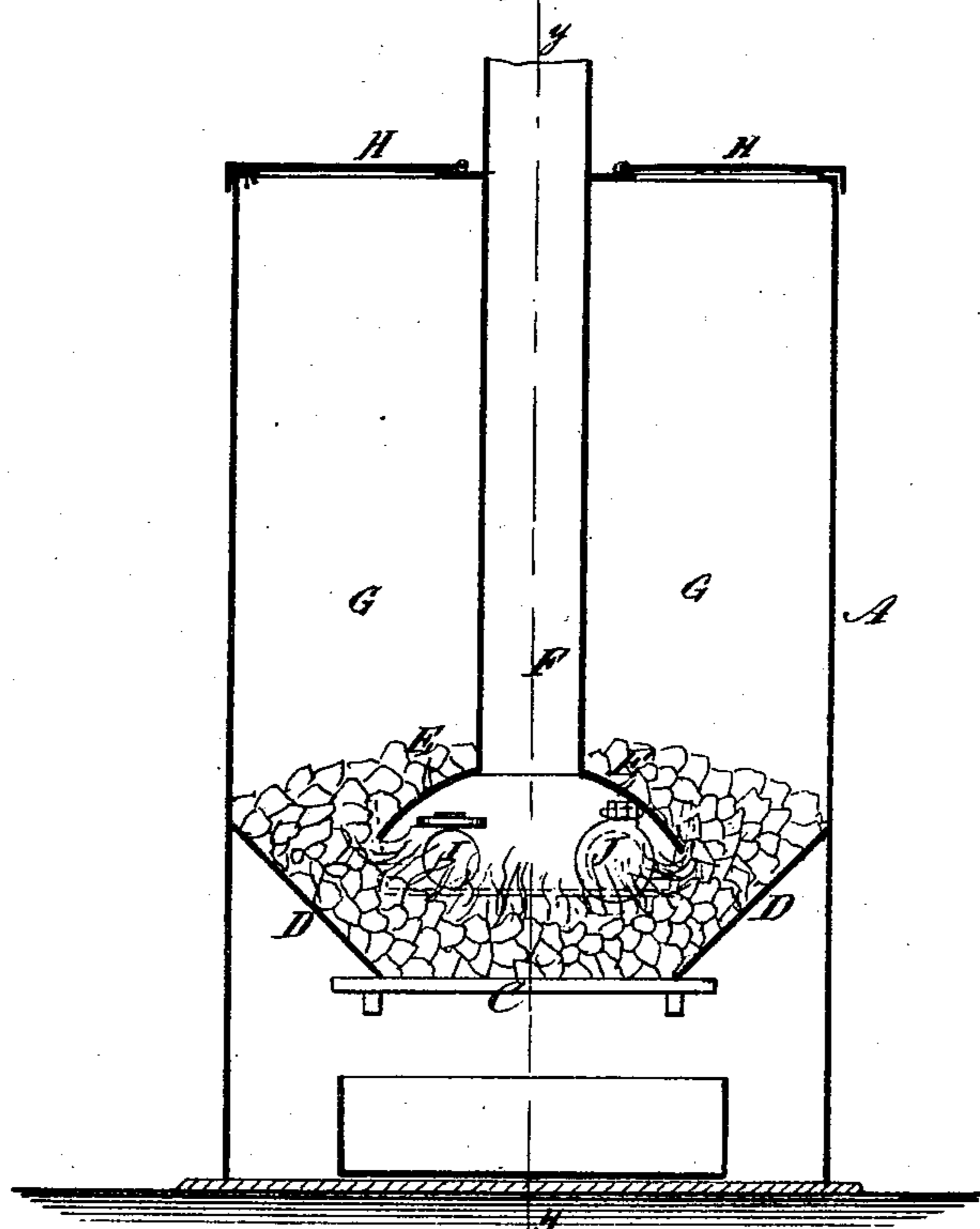
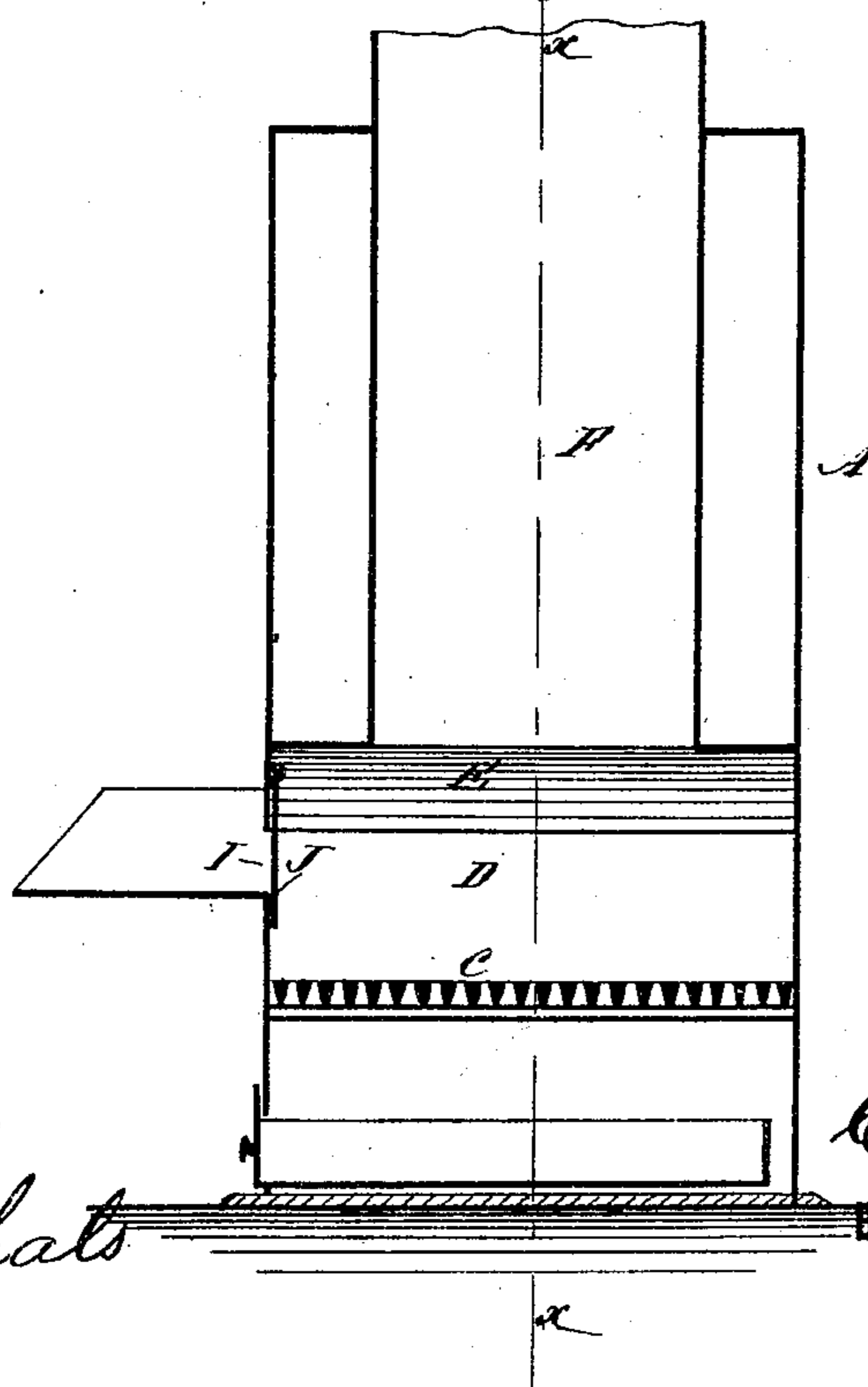


Fig. 2



WITNESSES:

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## IMPROVEMENT IN SOLDERING-IRON FURNACES.

Specification forming part of Letters Patent No. **178,891**, dated June 20, 1876; application filed May 16, 1876.

*To all whom it may concern:*

Be it known that I, EDWIN GRIGGS ADAMS, of Cohoes, in the county of Albany and State of New York, have invented a new and Improved Charcoal-Furnace, of which the following is a specification:

The object of the invention is to provide a simple and efficient furnace for heating soldering-irons and other articles. It consists of a vertical fire-box with a center flue and a hood, so arranged over the fire-bed that an open space is provided in the coal for the irons, and the heat is made to pass directly against the irons, so as to have the best action for heating them quickly and economically.

Figure 1 is a sectional elevation of my charcoal-furnace, taken on the line *xx* of Fig. 2; and Fig. 2 is a section on the line *yy* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A is the shell of the case, in which is a fire-grate, C, extending from front to rear, as shown in Fig. 2, but in the other direction being considerably narrower than the case. D represents inclined sides to the fire-box, resting at the lower end on the grate, and at the top against the sides of the shell. E is a hood over the fire-grate, and F a flue for the escape of the products of combustion; G, coal-space; H, doors for supplying fuel, and I openings for introducing the irons to be heated, with

self-closing dampers J, to prevent the cold air from rushing in over the fire-bed when the irons are taken out.

It will be seen that by the use of the flue F the combustion of the coal is prevented above the hood, and the draft is directly against the irons, instead of away from them, as in the common furnace, and the hood maintains an open space for the irons, so that they heat very quickly, and the fire is regulated to the needed capacity, and is alike all the time it is kept supplied with coal.

The inclined sides to the fire-box may be dispensed with if the grate is extended to the sides of the case; but the consumption of fuel will be greater, and in some cases I propose to dispense with the hood, also.

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

The combination, with a charcoal-furnace having inlets I for the metal, of a hood, E, and flue F, centrally arranged to form an open space under the hood and mouth of the flue for the reception of the metal, substantially as shown and described.

EDWIN G. ADAMS.

Witnesses:

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