To all whom it may concern:

Be it known that we, JOSEPH S. CLOUD and SAMUEL D. DEARMAN, both of Spartanburg, in the county of Spartanburg and State of South Carolina, have invented new and improved Fire-Places and Heaters, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of a fire-place or heater made in accordance with our invention. Fig. 2 is a sectional elevation on line x x of Fig. 1, and Fig. 3 is a similar view on line y y of Fig. 2.

The invention will first be described in connection with the drawings and then pointed out in the claims.

A represents the curved back plates of the fire-place or heater; B, the hearth; C C, the side plates, and D represents the lower division-plate between the two opposite fire-places.

The hearth and the back and side plates and also the dome E are set in a suitable frame F, to be built into the wall of a building. The dome E connects with the chimney-flues to carry away the smoke and products of combustion pass when the dampers G are closed, and the dampers G', closing the openings G in the back plates A, are opened. The hearths B are set in a base-plate J, having flanges j j to hold the side plates C, which may be readily removed. The air-chamber H is held in place by flanges i i, formed at the back of the curved back plates A A, as shown clearly in Fig. 2.

K K are wide rods or flanges at the back of the fire-places to hold the fuel away from the curved plates A to form space for air to pass back of the fuel up to the damper-openings G, as will be understood from Fig. 3.

By constructing the fire-place or heater in this manner and by means of the dampers all of the heat may be utilized for heating both lower and upper rooms; and while we have shown in the drawings only an open fire-place for burning wood as fuel, we propose to use coal by using portable grates.

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

1. The combination, with the curved back plates, of an air-heater H, having flues M, substantially as described.

2. The back plates A, having the openings G and the dampers f, in combination with the air-heater H, held above the back plates, and provided with the flues M, coinciding with the openings G, and the dampers G', controlling the openings G, substantially as described.

JOSEPH S. CLOUD.

SAMUEL D. DEARMAN.

Witnesses:

B. G. LAMBRIGHT, Jr.,
GEO. G. AVANT.