No. 32,364.

F. L. HEDENBERG.

Fireplace Heater.

Patented May 21, 1861.



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UNITED STATES PATENT OFFICE.

F. L. HEDENBERG, OF NEW YORK, N. Y.

FIREPLACE-HEATER.

Specification of Letters Patent No. 32,364, dated May 21, 1861.

To all whom it may concern: I handle b, to cause it to act as a regulator, Be it known that I, F. L. HEDENBERG, and allow the gases &c., to pass directly of the city, county, and State of New York, through said draft plate, to the flue E, or have invented certain new and useful Imcompel them to pass up and over the top of 55 5 provements in Fireplace-Heaters, to be used said flue or draft plate as shown in Fig. 3. in connection with the ordinary parlor or Underneath the extension flue E, and bebasement grate, for warming the apartment hind the grate, there is a wedge-shaped or apartments above, while retaining the drum F, and between said drum, and the open grate below; and I do hereby declare back plate of the grate, there is an air 60 10 the following to be a full, clear, and exact chamber G, the air being admitted thereto. at the bottom, and rising it is heated by the description of the same, reference being had to the accompanying drawings, making a drum and plates and flues with which it part of this specification, in which comes in contact, and may thence be con-Figure 1, represents a perspective view of veyed to an upper room or rooms, in any 65 15 the grate and a portion of the heating apof the usual well known ways. paratus. Fig. 2, represents a vertical section From the rear end of the extension flue E, taken longitudinally through the heating rise two flue pipes H, I, which communiapparatus behind the grate. Fig. 3, reprecate with a flue, and exit pipe J, furnished with a damper c, by which the escaping heat 70 sents a vertical transverse section through and gases may be forced to pass down into 20 the grate and heater behind it. Similar letters of reference where they and through the drum F, instead of imoccur refer to like parts of the apparatus in mediately to the exit flue. And from the all the figures. rear end of this extension flue E, two pipes K, L, connect it with the drum F, so as to 75 The object of my invention is to preserve 25 the usual agreeable open grate, and to conturn the gases &c. down into the drum before they pass off finally at the exit flue or pipe. nect with it, or so construct it, as make a heating apparatus behind it, for heating air It will be perceived that, though the grate and transmitting it to a room or rooms takes up much of the room ordinarily found above for warming them. in a modern fire place, I still by my con- 80 To enable others skilled in the art to make struction find sufficient room to place my $\mathbf{30}$ and use my invention, I will proceed to dedrum, and leave considerable air space bescribe the same with reference to the drawtween it, and the back plate of the grate, and also have considerable heating surface ings. A, represents the usual open grate. at the top and bottom of the extension flue, 85 and around the flue pipes and passages, and The back plate B, may be corrugated or 35thus by what would be otherwise lost heat, plain, and the jambs C, united thereto by screws or otherwise, so as to adapt the con-I am able to warm one or two rooms overtrivance to grate fronts of various sizes, as head. the jambs may be put on at any point to Having thus fully described my inven- 90 40 the back plate. And the back plate may tion what I claim is have a fire proof lining if preferred, the The open grate, the draft plate, the excontrivance being applicable to, or used in tension flue, the drum, and air space between connection with any of the ordinary well it, and the back plate, and the connecting known grates in common use. passages, when arranged and operating to- 95 D, is the draft plate, which projects forgether, substantially as herein described, and 45 ward over the grate, and then curves backfor the purpose set forth.

ward into the extension flue E, as shown in Fig. 3. This draft plate is made with openings through it, and behind it is another 50 sliding plate a with openings also through it, and which may be slid by means of a l

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