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No. 14,648.

W. H. BINNY.

Heating Stove.

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Fig.I

## Patented April 15, 1856.

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## N. PETERS, Photo-Lithographer, Washington, D. C.

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## UNITED STATES PATENT OFFICE.

WILLIAM W. BINNY, OF SENECA FALLS, NEW YORK.

## COAL-STOVE.

Specification of Letters Patent No. 14,648, dated April 15, 1856.

pass through the base A; four or more of To all whom it may concern: these tubes may be employed. Be it known that I, W. W. BINNY, of By closing the register B, and opening Seneca Falls, in the county of Seneca and the damper H, and the draft door F' of the 55 State of New York, have invented a new ash drawer a direct draft is obtained as in-5 and Improved Stove for Burning either dicated by the black arrows in Fig. 1. The Anthracite or Bituminous Coal; and I do direct draft is necessary in kindling the fire. hereby declare that the following is a full, By closing the damper H, the draft will clear, and exact description of the same, take the course indicated by the red arrows 60 reference being had to the annexed drawviz upward from the fire in the cylinder C. 10 ings, making a part of this specification, in and down the tube or pipe K, into the hollow which base A, and thence up through the pipes J, Figure 1, is a vertical section of my im-J, into the upper part of the cylinder C, provement, the plane of section being above the partition G, and into the smoke 65 through the center. Fig. 2, is a plan or top pipe I, and by closing the draft door F', in 15 view of the same. the ash drawer F, and opening the register Similar letters of reference indicate cor-B, the combustion will be quite slow as the responding parts in the two figures. fire will be supplied with air at its upper My invention consists in the peculiar consurface only and as a large radiating sur- 70 struction of the stove hereinafter fully face is obtained a great amount of heat is thrown out from the stove with a comparaamount of heat is obtained from a comtively small amount of fuel. paratively small amount of fuel and the When the draft passes down the pipe or gaseous products of combustion consumed. tube K, and the register B, is open the gas- 75 To enable those skilled in the art to fully eous products of combustion will all be con-. 25 understand and construct my invention, 1 sumed, because the gases in passing down will proceed to describe it. the hot tube K, will come in contact with A, represents the base of the stove, said the air admitted through the register B, and base being hollow forming a tight box and will ignite, it being well known that these 80 having a register B in its front side. gases when passing over a heated surface C, represents a cylinder which is placed and supplied with a certain quantity of on the base A, said cylinder having a fire atmospheric air will burn. grate D in its lower part, underneath which The tubes L, afford an additional radiatgrate is the ash pit E, provided with a ing surface, the air passing through them, 85 drawer F, having a draft door F' in its the tubes being heated in consequence of be-35 front side. The cylinder C has a horizontal ing fitted within the hollow base. partition G, in its upper part, said partition Having thus described my invention what having a damper H, at its center, see Fig. 1. I claim as new and desire to secure by Let-I, is the smoke pipe at the top of the cylters Patent is inder C; and J, J, are pipes, the lower ends 90 The partition G, placed within the cyl-40 of which communicate with the hollow base inder C, and provided with a damper H, A and the upper ends with the cylinder C, the vertical tube or pipe K, also within the above the partition G, as plainly shown in cylinder C, and the hollow base A, provided Fig. 1. with a register B, when the above parts are 95 K, is a pipe or tube placed vertically arranged as herein shown and described for per end of the pipe or tube extends some distance above the level of the fire, and its the purpose specified. WM. W. BINNY. lower part passes through the ash pit E, and communicates with the hollow base A, Witnesses: V. T. LINDEGREEN, L, are vertical air heating tubes which T. Cook.

20 shown and described, whereby a large

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45 within the cylinder at its center. The up-50 see Fig. 1.