H. CARDIN.

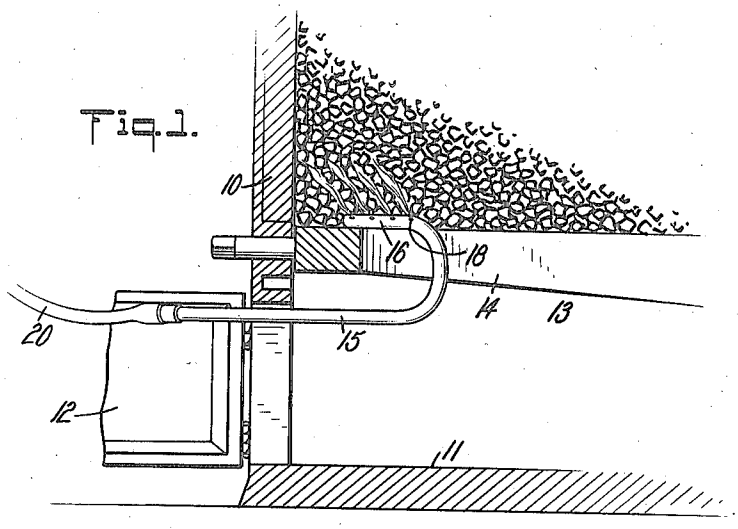
GAS FIRE STARTER.

APPLICATION FILED FEB. 8, 1916.

1,180,107.

Patented Apr. 18, 1916.

Fig. 1.



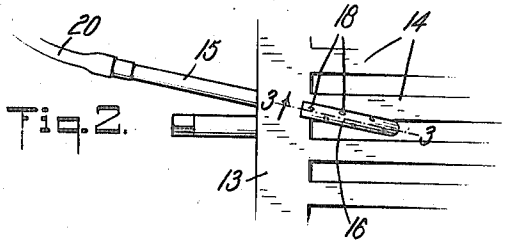


Fig. 2.

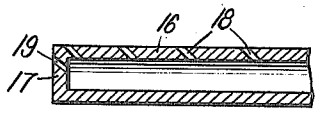


Fig. 3.

WITNESSES

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GAS FIRE-STARTER.

1,180,107. Specification of Letters Patent. Patented Apr. 18, 1916.

Application filed February 8, 1916. Serial No. 77,072.

To all whom it may concern:

Be it known that I, HARRY CARDIN, a subject of the Czar of Russia, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Gas Fire-Starter, of which the following is a full, clear, and exact description.

This invention relates to means for starting or igniting fires in stoves, furnaces or the like, in which heavy fuel such as blocks of wood, coal or the like is employed.

Among the objects of the invention is to provide an attachment whereby ordinary illuminating gas may be conveyed to and utilized in a fire box for starting the fire, the device being designed especially for self-support upon one of the grate bars of any usual or ordinary construction.

With the foregoing and other objects in view, the invention consists in the arrangement and combination of parts hereinafter described and claimed, and while the invention is not restricted to the exact details of construction disclosed herein, still for the purpose of illustrating a practical embodiment thereof reference is had to the accompanying drawings, in which like reference characters designate the same parts in the several views, and in which—

Figure 1 is an upright sectional view of a conventional form of fire box and indicating my improvement in side elevation in operative position; Fig. 2 is a plan view of a portion of the grate upon which the fire starter is self-supported in the position shown in Fig. 1; and Fig. 3 is a vertical longitudinal section of the jet portion of the improvement on the line 3—3 of Fig. 2.

Referring now more particularly to the drawings, I show at 10 the front of a range, or its equivalent, having an ashpit 11, a draft door 12 guarding the entrance to the ashpit, and a grate 13 having a series of spaced bars 14 above the ashpit.

The principal element of my improvement comprises a metal tube 15 bent in the form of a goose neck or hook, the shorter leg 16 of which is plugged at its end at 17 and provided with a series of perforations 18 along its upper side and one 19 through the plug 17. These perforations or drill holes are inclined upwardly and forwardly, considering the plugged end of the portion 16 as the front end thereof when in operative position. The longer leg of the tube projects through the door at the front of the ashpit to any convenient distance and there it has attached to it a flexible gas tube 20 of any well known construction leading from any convenient gas jet.

In the practical operation of this invention it is not necessary to provide special kindling for starting a hard coal fire. The coal may be placed directly into the fire box supported upon the grate, and then the operator will open the draft door 12 and introduce the goose neck into the ashpit with the shorter leg portion 16 thereof projected upwardly between two of the grate bars where it will be supported either upon the cross bar of the grate or upon one of the grate bars for as long a time as necessary, requiring no further attention of the operator than to turn on the gas and light it with a match. The gas will jet upwardly and forwardly through the drill holes 18 toward the front 10 of the fire box, and the heat-resulting draft therefrom will be drawn naturally upwardly and rearwardly through the mass of coal or other fuel, causing the same to ignite. When the fire has sufficiently started in the fuel, the operator will turn off the gas and remove the attachment from the stove or furnace, putting it out of the way. No change or mutilation whatever of the fire apparatus is necessary.

The starting device made in accordance with this invention is exceedingly cheap, simple, safe and effective.

I claim:—

1. The herein described gas jet attachment for starting fires, the same comprising a goose neck having longer and shorter legs, the shorter leg being perforated and adapted to hang upon a portion of the grate for self-support and the longer leg being projected forwardly for flexible attachment to the gas jet.

2. The combination with a fire apparatus including a grate bar, of a fire starter comprising a goose neck metal tube having

longer and shorter legs, the shorter leg being projected upwardly along and adapted to hang over said bar for self-support during the kindling action, said shorter leg being provided with a plurality of forwardly and upwardly inclined perforations through which the gas is adapted to jet, said leg being plugged at its front end and the plug being provided with a jet hole therethrough, substantially as set forth.

HARRY CARDIN.

Witnesses:
MARCUS SLOVICK,
GEORGE WIENER.