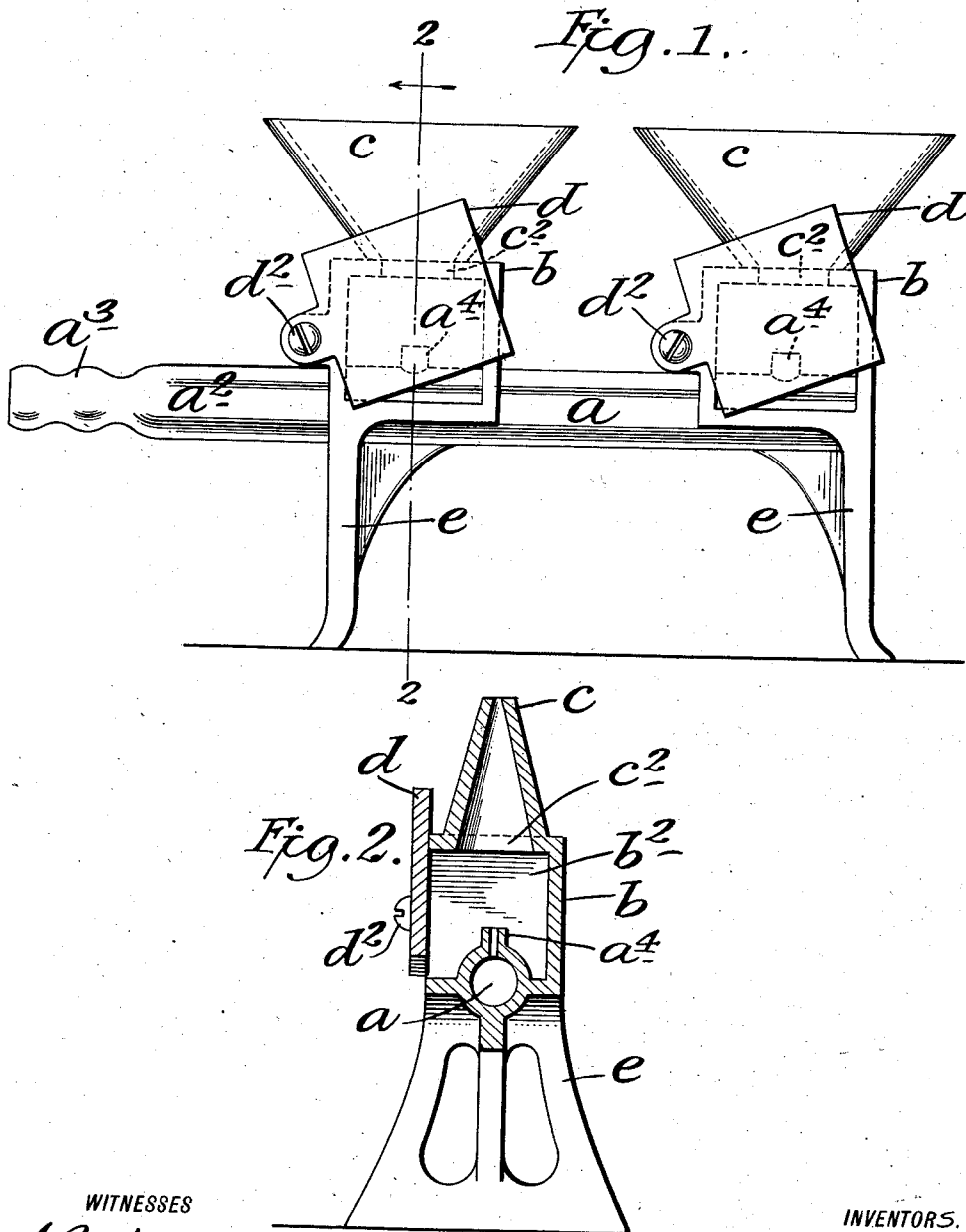


P. C. TRUELSEN & A. SIMONSEN.
FIRE LIGHTING DEVICE.
APPLICATION FILED NOV. 13, 1911.

1,022,053.

Patented Apr. 2, 1912.



WITNESSES

A. R. Applesman
Frank H. Atlee

INVENTORS.

Peter C. Truelsen & Adolf Simonsen.
BY *Edgar Tate & Co.*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

PETER C. TRUELSEN AND ADOLF SIMONSEN, OF GLENDALE, NEW YORK.

FIRE-LIGHTING DEVICE.

1,022,053.

Specification of Letters Patent.

Patented Apr. 2, 1912.

Application filed November 13, 1911. Serial No. 660,137.

To all whom it may concern:

Be it known that we, PETER C. TRUELSEN and ADOLF SIMONSEN, subjects of the King of Denmark, and residing at Glendale, Long Island, in the county of Queens and State of New York, have invented certain new and useful Improvements in Fire-Lighting Devices, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to devices for starting or lighting fires when coal, wood or other material is used as a fuel, and the object thereof is to provide an improved device of this class which may be inserted beneath the coal grate or beneath wood or other material supported by andirons, and whereby the fire may be quickly and easily started or the fuel ignited; and with this and other objects in view the invention consists in a device of the class specified, constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of our improvement are designated by suitable reference characters in each of the views, and in which:—

Figure 1 is a side view of our improved fire lighting or starting device, and, Fig. 2 a vertical section on the line 2—2 of Fig. 1.

In the practice of our invention we provide a pipe *a* closed at one end and provided at the other with an extension *a*² with which a flexible gas hose may be connected at *a*³, and said extension *a*² forms a handle for the device.

The pipe *a* is provided with casings *b* forming gas and air mixing chambers *b*², two of which are shown, but one or more of which may be employed, and said casings *b* inclose the top part of the pipe *a* and extend above the same and are provided with elongated burners *c* having contracted neck portions *c*² which communicate with the chambers *b*².

The front sides of the chambers *b*² or the casings *b* which form said chambers are open and are provided with doors *d* which are pivoted at *d*² by means of screws passed through neck portions formed on said doors, and on the sides of the casings *b*, and the friction occasioned by the pivotal connection of the doors *d* at *d*² is such that said doors

may be raised and lowered at will, and held in any desired position, and in practice, when the device is ready for use the doors *d* may be partially raised as shown in Fig. 1 so as to admit air to the chambers *b*² and a match or other igniter may be employed to ignite the mixture of gas and air as it escapes from the burner *c*.

The device is provided with legs *e* by which it may be or is supported in an operative position when in use, and in the operation of this device it is inserted beneath the grate or other fuel support and the doors *d* slightly raised so as to permit air to flow into the chambers *b*², and the gas is then turned on and the gas and air mixture is ignited as it flows from the burner *c*, or this operation may be performed before the device is inserted beneath the fuel.

The pipe *a* is provided with gas nozzles *a*⁴ by which gas from said pipe is discharged into the chambers *b*², and while in the accompanying drawing we have shown all the parts of the device, with the exception of the doors *d*, as formed integrally, it will be understood that said parts may be formed in any desired manner or may be formed separately and connected in any preferred way. The doors *d* not only serve as means for admitting air to the chamber *b*² and for regulating the amount thereof, but the said doors may be entirely open so as to permit or facilitate the cleaning of the chambers *b*², the nozzles *a*⁴, and the burner or burners *c*. It will also be understood that the legs *e* may be made of any desired height or length so as to give the device when supported thereby any desired height, and changes in and modifications of the construction described may be made, within the scope of the appended claims, without departing from the spirit of our invention or sacrificing its advantages.

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

1. A fire lighting device comprising a pipe one end portion of which is provided on the top thereof with gas and air mixing chambers above which are burners, said chambers being provided with means for admitting air thereto, comprising doors pivoted at one side thereof and adapted to be adjusted into different positions, the other end portion of said pipe being provided

with an extension which forms a handle and with which a gas hose may be connected.

2. A fire lighting device comprising a pipe provided on the top of one end portion thereof with gas and air mixing chambers above which are burners, said chambers being open at one side and provided with pivoted doors adapted to be adjusted into different positions, the other end portion of said pipe being provided with an extension which forms a handle and with which a gas hose may be connected, and said device be-

ing also provided with legs for supporting it in operative position.

In testimony that we claim the foregoing as our invention we have signed our names in presence of the subscribing witnesses this 11th day of November 1911.

PETER C. TRUELSEN.
ADOLF SIMONSEN.

Witnesses:

C. E. MULREANY,
FRANK G. AT LEE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."