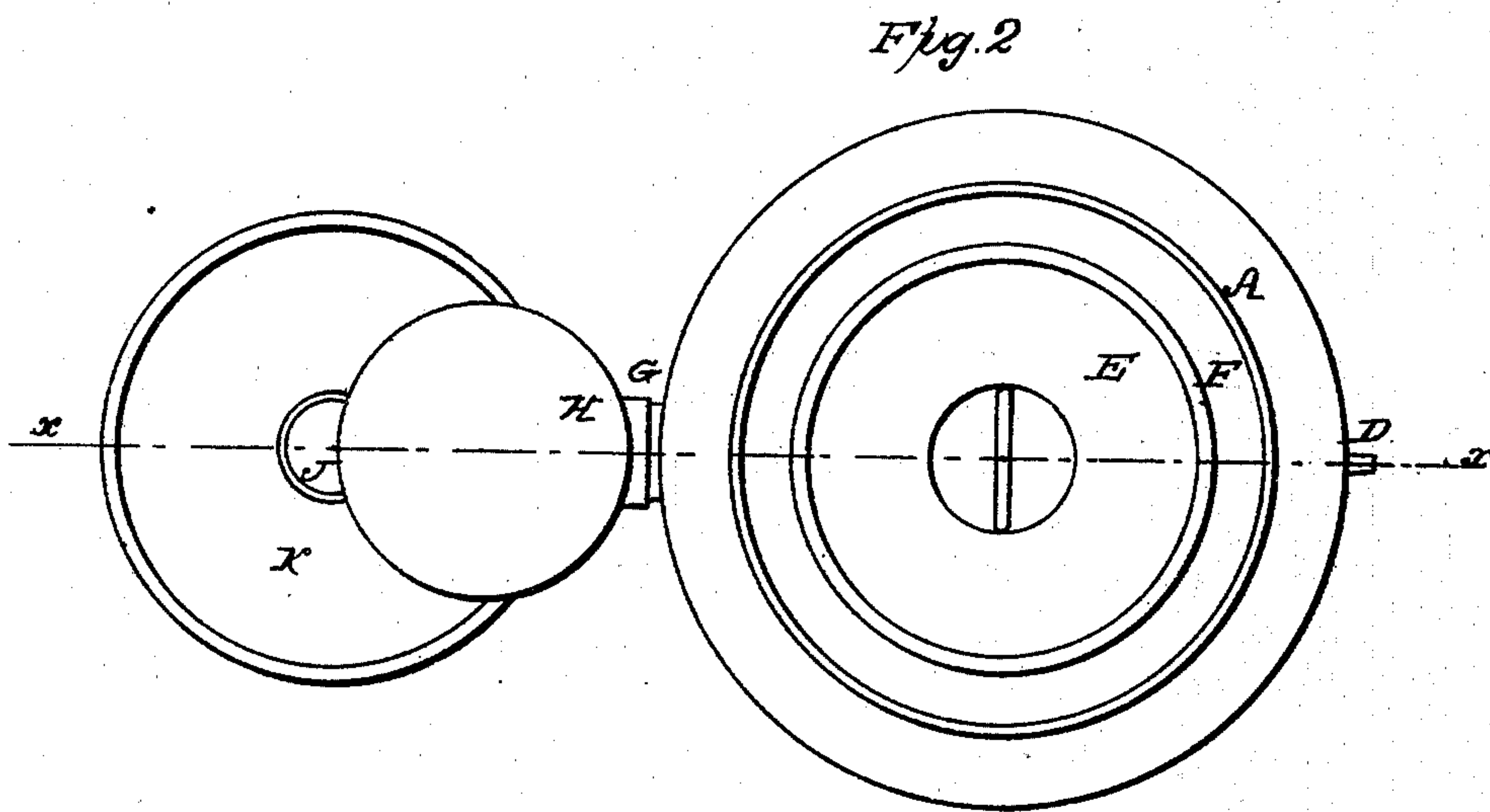
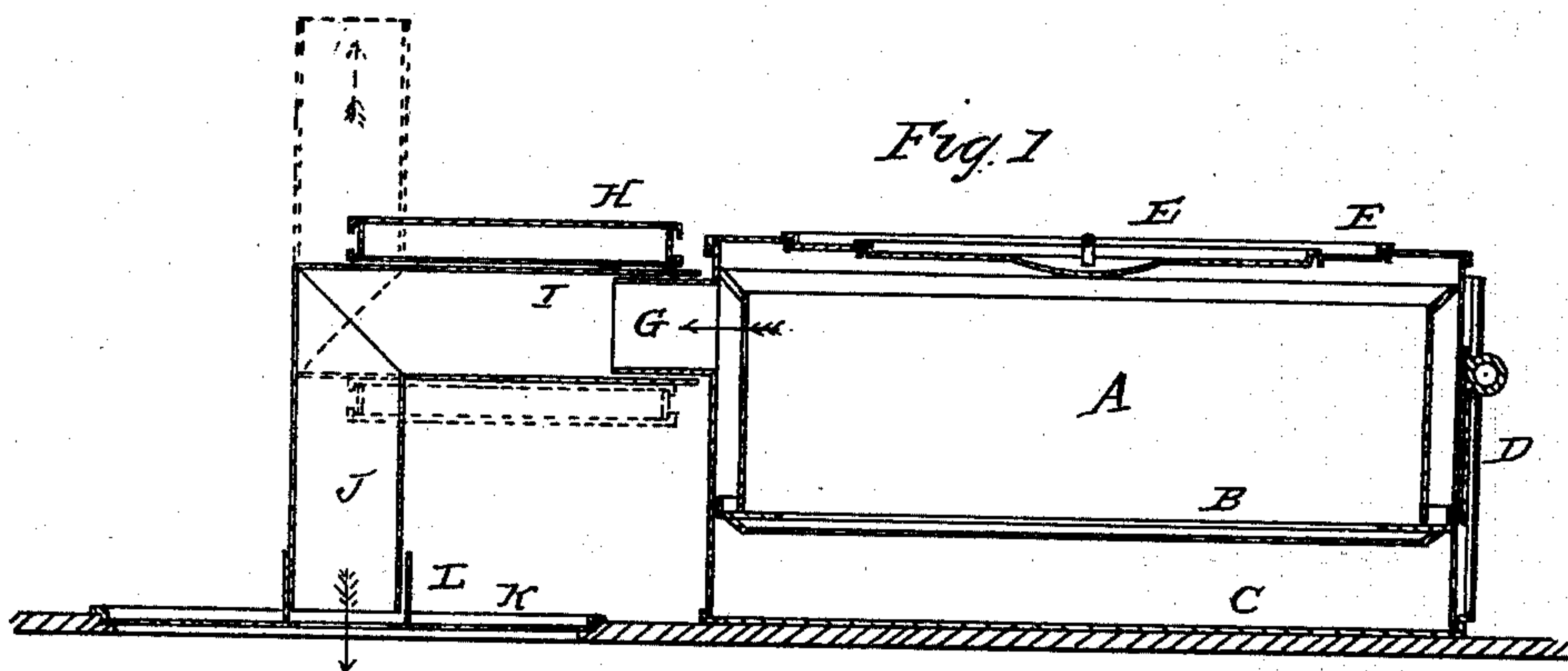


F. MORANDI.
Summer Stove.

No. 49,136.

Patented Aug. 1, 1865.



Witnesses
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UNITED STATES PATENT OFFICE.

FRANCIS MORANDI, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN SUMMER-STOVES.

Specification forming part of Letters Patent No. **49,136**, dated August 1, 1865.

To all whom it may concern:

Be it known that I, FRANCIS MORANDI, of No. 44 Union street, Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Summer-Stoves; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents an elevation of a vertical section of a stove made according to my invention, the line of section being seen at *x*, Fig. 2. Fig. 2 is a plan thereof.

Similar letters of reference indicate like parts.

The object of this invention is to provide a portable, convenient, and economical summer-stove for domestic and other uses.

It consists in a fire chamber or furnace which can be connected either with another stove, so as to discharge the products of combustion into its flues, or else with a chimney or other flue, the fire chamber being provided with a boiler-hole, and the discharge-pipe being made to support a hot-air or combustion chamber, whose top forms a heating-surface on which vessels may be set as upon any other heating-surface.

A designates the body of a furnace or stove, whose form in this example is circular; but it may be of any desired shape as well as of various sizes. It may also be ornamented in any desired style.

B is the grate, and D the draft-damper. The part C beneath the grate forms an ash-chamber.

The inside of the walls of the stove, which I propose to make of sheet-iron for a light and portable stove, may be lined with fire-brick, so that wood, charcoal, anthracite coal, coke, or other fuel may be burned therein without destroying the walls. Its top may be of cast-iron, and it is fitted with a boiler-hole, covered with one or more rings, P, and a cover, E.

G is the smoke-pipe. It extends horizontally a little distance from the stove, where it is joined by a descending pipe, J, which fits within a collar, L, of a perforated plate, K,

whose form is circular, and whose size is to be such as to enable it to cover a boiler-hole of any stove or range.

When my stove is used in connection with a cooking stove or range it is set upon its top, and the plate K is placed over one of the vacant boiler-holes of the stove or range. In this position the products of combustion will be guided into the flues of the latter, and so into the chimney. This arrangement enables one to use my stove without disturbing the usual kitchen stove or range. If, however, it is desired to direct the products of combustion into a chimney or other flue, the plate K may be removed from the pipe J and the latter pipe turned upward, as seen in red outline; or it may be turned so as to point in a horizontal direction.

H is a heating platform or chamber fixed to the upper side of the horizontal pipe G, with which it communicates through a hole, I, which admits the hot air and gases and smoke from the stove, and in which the unconsumed gases will be received and burned. The surface of this chamber is of sufficient area to permit its use for heating and cooking purposes, as for drawing tea, boiling coffee, and the like. It will be observed that one can boil or broil at the opening of the stove A, and at the same time use the heating-surface of the chamber H for keeping any article already cooked hot or for making tea. Instead of making a chamber, H, on the upper side of the pipe G, a solid metallic piece or an open-work metallic piece may be fixed thereon to serve a like purpose. The chamber H in this example is brought beneath the pipe G, when the pipe J is turned up; but the chamber H or any other platform that may take its place may be connected to a section of the pipe G which shall remain unchanged, while an elbow which connects it with the pipe J may be turned with the latter. The platform would then be uppermost in any position of the pipe J.

The chamber may be perforated with two or more holes, so as to induce a circulation of hot air and gas through it.

I claim as new and desire to secure by Letters Patent—

1. In portable summer stoves or furnaces, ar-

ranging a perforated cover, K, upon the smoke-pipe, so as to enable one to discharge the smoke into and use the stove with a kitchen stove or range without requiring any change in the latter, substantially as described.

2. Fixing a platform or heating-surface, H, upon the horizontal part of the smoke-pipe, substantially as and for the purpose described.

3. The combination of a summer stove or furnace with a platform or heating-surface, H, on the pipe, substantially as described.

FRANCIS MORANDI.

Witnesses:

W. M. PARKER,
A. B. ELY.