

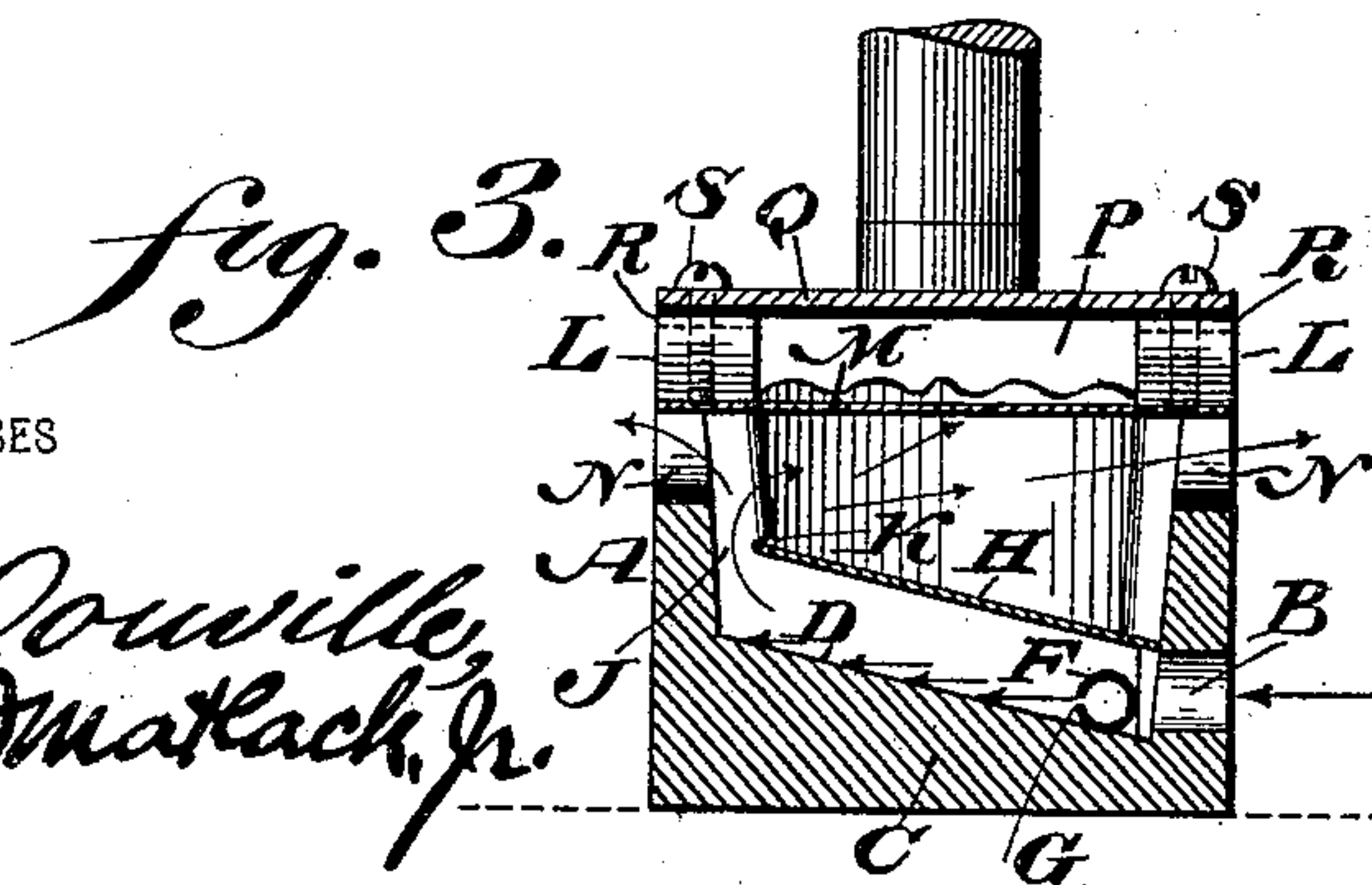
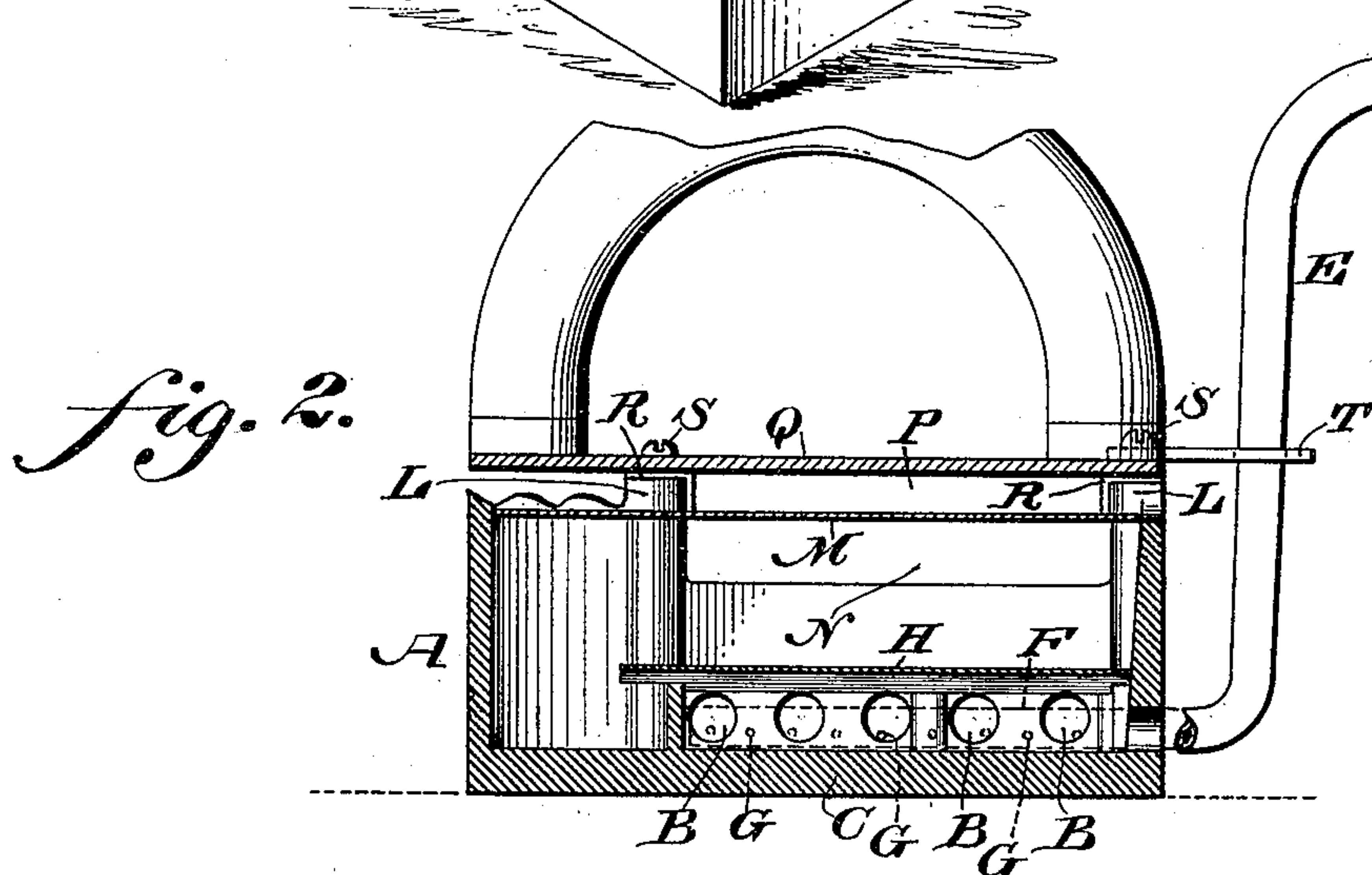
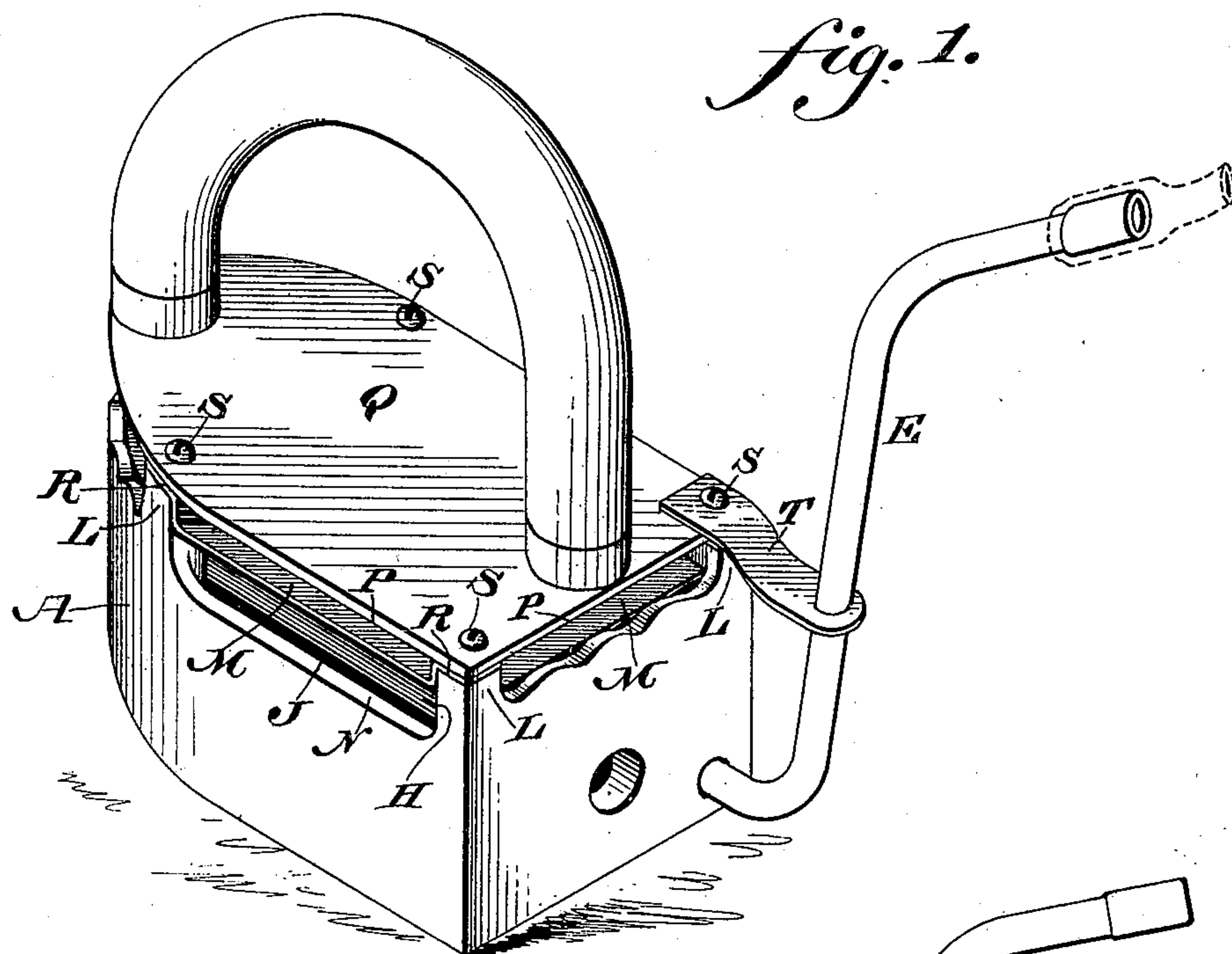
No. 621,062.

Patented Mar. 14, 1899.

H. GEFRORER.  
GAS SAD IRON.

(Application filed Sept. 8, 1897.)

(No Model.)



WITNESSES

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# UNITED STATES PATENT OFFICE.

HENRY GEFRORER, OF PHILADELPHIA, PENNSYLVANIA.

## GAS SAD-IRON.

SPECIFICATION forming part of Letters Patent No. 621,062, dated March 14, 1899.

Application filed September 8, 1897. Serial No. 650,944. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY GEFRORER, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Gas Sad-Irons, which improvement is fully set forth in the following specification and accompanying claims.

My invention relates to improvements in a gas-heated sad-iron formed of a hollow body having a face within the same inclined or oblique and provided with a gas-pipe whose jets are so disposed as to cause the flame to impinge against said oblique face and thus highly heat the base of the iron.

It consists in the novel construction, combination, and arrangement of parts, as hereinafter fully described, pointed out in the appended claims, and illustrated in the accompanying drawings.

Figure 1 represents a perspective view of a sad-iron embodying my invention. Fig. 2 represents a longitudinal section thereof. Fig. 3 represents a transverse section thereof.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates the body of the iron, the same being hollow and having in one of the sides thereof the air-inlet openings B, which lead into the interior of said body.

C designates the base of the body, the upper wall D of which extends obliquely upwardly from the openings B to the opposite side of the body.

E designates a gas-pipe, the discharge portion F of which is located within the body A and rest on the lowest end of the wall D of the bottom, said portion having on the side toward the highest part of the wall D the openings G as outlets for the gas, it being noticed that the pipe F extends through the lowermost portion of the passage J, and said outlets face said passage, so that the flame impinges at an acute angle upon the top wall of the base and climbs the same, thus effectively highly heating said wall, and consequently the bottom of the iron. In order to assist in causing the flame to impinge against the wall D, I employ the shield H, which consists of a plate supported within the body above said wall D and the openings B at one side and separate from the opposite side, forming a passage J for the products of combustion. In the present case said shield is located above the por-

tion F of the gas-pipe and inserted at its forward end in the slit K in one of the piers L within the body A.

M designates a guard on the top of the body, the same being separated from said top, leaving the passages N for the escape of the products of combustion, said guard being also depressed, so as to form passages P between the same and the handle-plate Q for the escape of heat, thus preventing intense heating of said plate Q. The elevated portions of said guard M consist of the ears R, which rest on the piers L and receive the screws S, which connect said plate Q with said piers.

In order to retain the gas-pipe E in position on the body A, I employ the plate T, which is provided with an opening for the passage of said pipe therethrough and another opening for the reception of one of the screws S, which while connecting the handle-plate Q and the guard M with the body A also secures said plate T to the handle-plate Q, and thereby firmly and conveniently sustains the pipe E.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a gas sad-iron, a hollow body with piers and provided with openings in one of its sides near its base, a shield forming with the base and sides of the iron a heating-chamber, a guard having ears thereon, a handle-plate secured to said ears and piers, and passages between said shield and guard, and between said guard and handle-plate having openings to the atmosphere on the sides of said iron.

2. A gas sad-iron having a hollow body with piers thereon, a shield within the same above the base thereof, a guard with ears thereon, a handle-plate secured to said ears and piers, said shield and upper wall of said base being inclined forming an inclined passage between said shield and base, an air-inlet opening in the side of the body at the lowest end of said passage and a gas-distributing pipe within said passage at said lowest end, said pipe having laterally-extending discharge-openings, pointing toward said passage at an acute angle to said wall.

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Witnesses:

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