

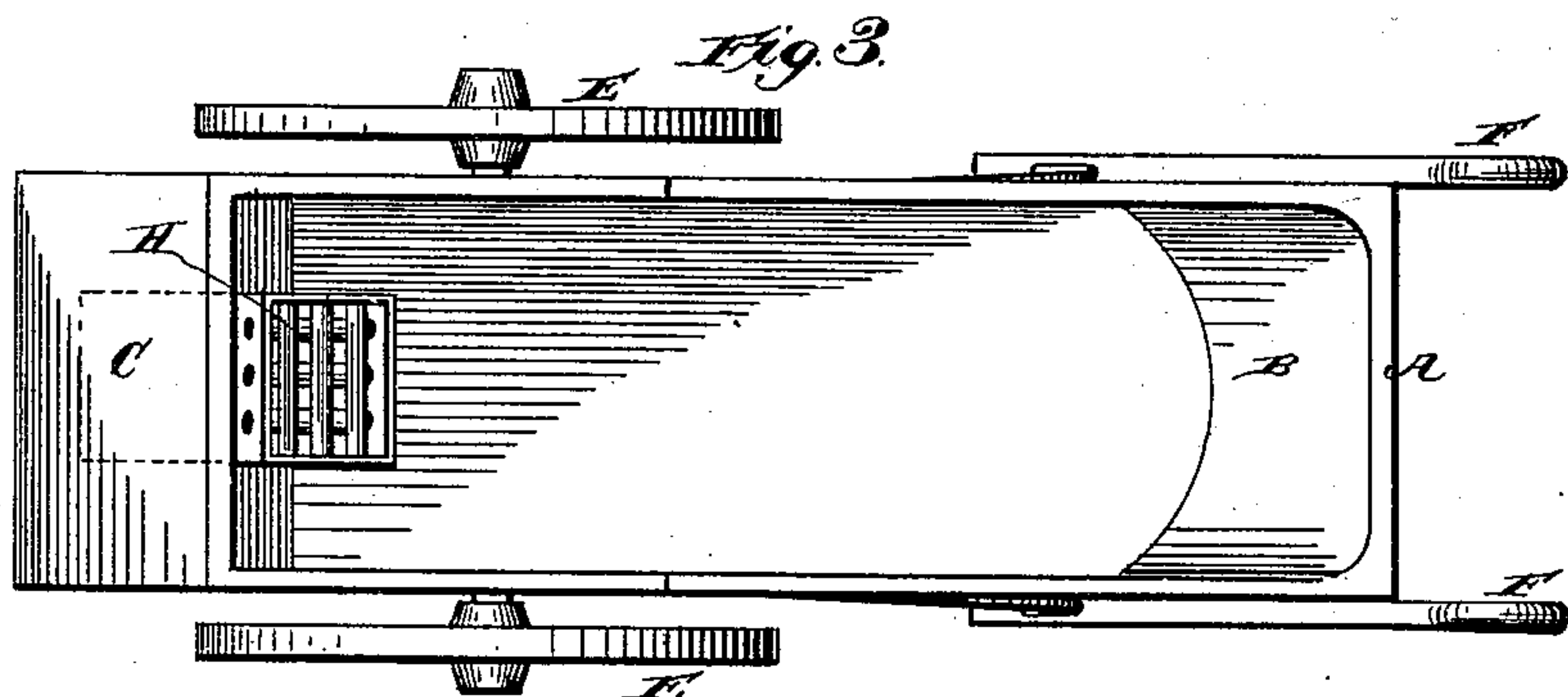
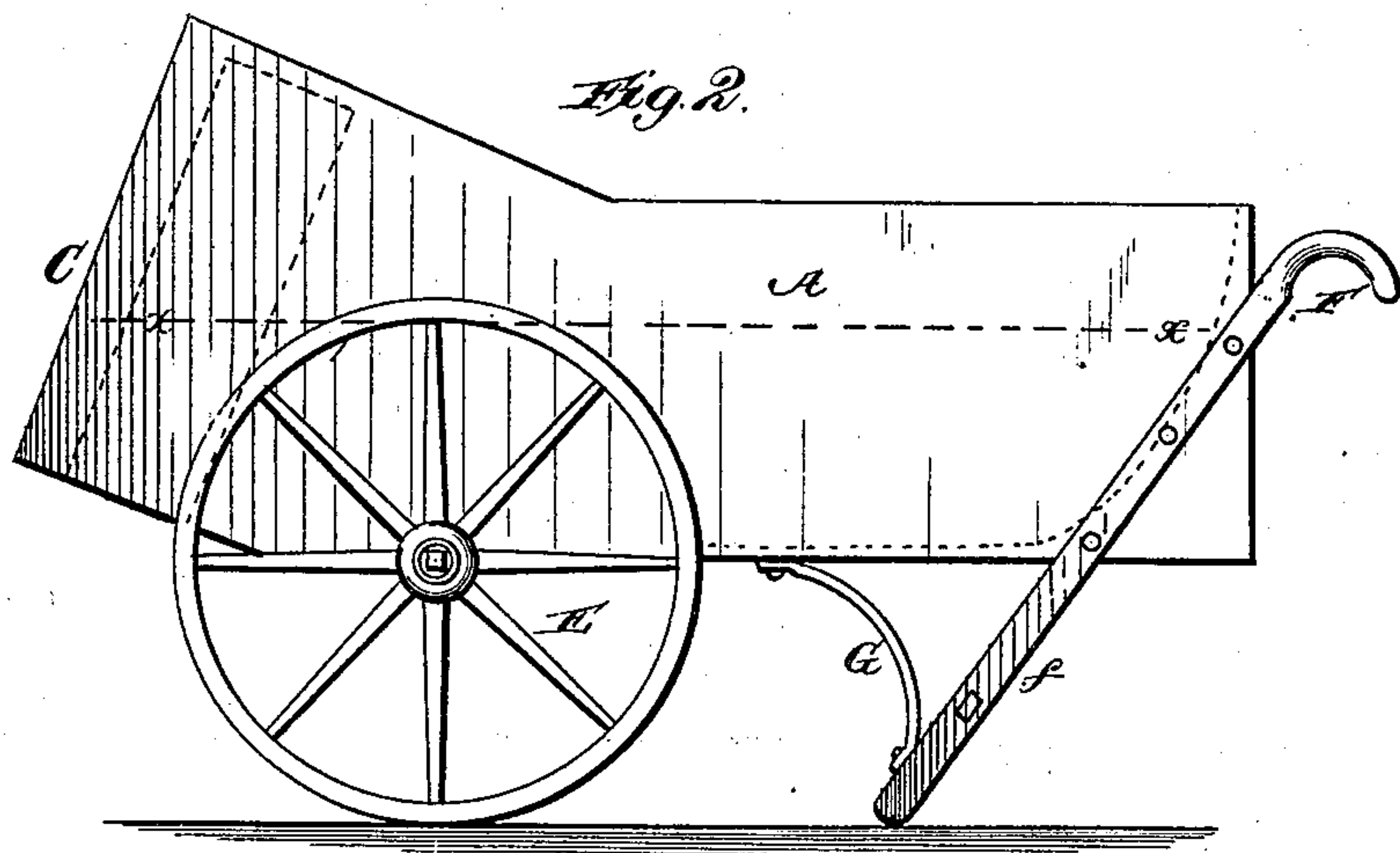
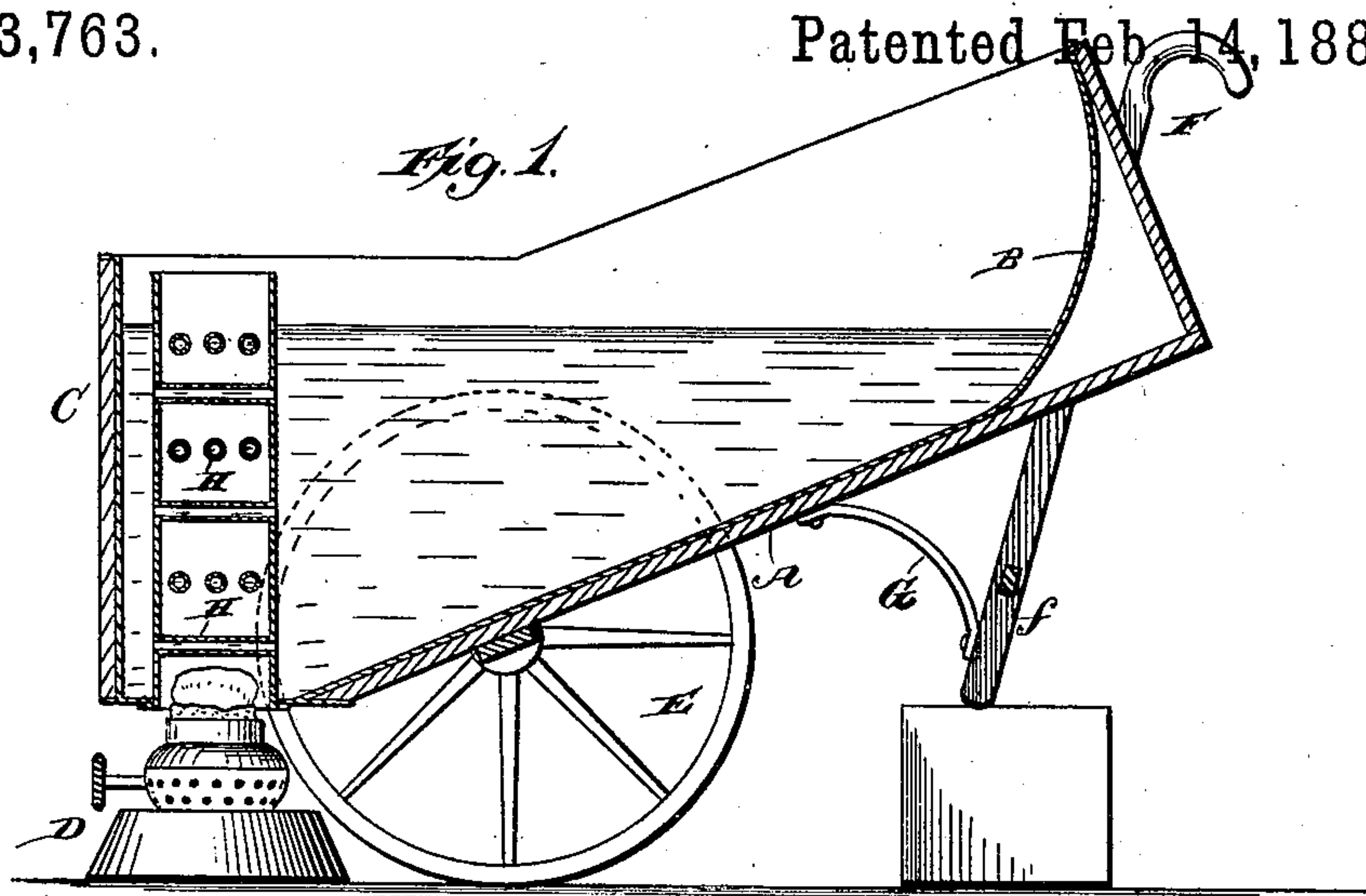
(No Model.)

W. Q. PREWITT.

PORTABLE COMBINED BATH TUB AND HEATER.

No. 253,763.

Patented Feb 14, 1882.



Witnesses.
Robert L. Gault.
A. M. Galt.

Inventor.
William Q. Prewitt.
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UNITED STATES PATENT OFFICE.

WILLIAM Q. PREWITT, OF LEXINGTON, KENTUCKY.

PORTABLE COMBINED BATH-TUB AND HEATER.

SPECIFICATION forming part of Letters Patent No. 253,763, dated February 14, 1882.

Application filed December 1, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM Q. PREWITT, a citizen of the United States, residing at Lexington, in the county of Fayette and State of Kentucky, have invented new and useful Improvements in Portable Combined Bath-Tub and Heater, of which the following is a specification.

The object of this invention is to provide an improved portable bath-tub which can be readily moved from place to place, and which can be easily tilted, so as to throw the water to one end of the tub, in which a hot-air flue is located, thus exposing the water to a greater area of heating-surface than if the tub were allowed to remain in a horizontal position.

To such end my improvement consists, first, in a portable bath-tub provided at one end with a hot-air flue and pivoted upon a support, whereby the tub can be tilted, so as to throw the water to the end in which the flue is located; second, in a portable bath-tub provided at one end with an inclined extension, and with a hot-air flue arranged within the said extension, the tub being pivoted upon a support, so that it can be tilted in order to cause the greatest depth of water to be at the point where the flue is located; third, in a portable bath-tub provided with an axle supported by wheels, and having at one end an inclined extension with a hot-air flue arranged therein, whereby the tub can be tilted, so as to cause the water to rise around the flue, in order to expose the water to a greater area of heating-surface, and also so that the tub can be readily moved from place to place; fourth, in combination with a portable bath-tub provided at one end with an inclined extension, the wheels and legs for supporting the tub, the handles, and the hot-air flue arranged in said inclined extension, all as hereinafter fully described.

In the drawings, Figure 1 is a longitudinal section, with the tub held in an inclined position. Fig. 2 is a side elevation, with the tub in a horizontal position. Fig. 3 is a top or plan view.

The bath-tub is constructed with an ordinary horizontal wooden casing, A, having a suitable metal lining, B, secured within the outer wooden casing, as usual. The tub inclines upwardly at one end, so as to form an inclined extension,

C, within which is located a sheet-metal flue, open at both ends, and secured at its base to the bottom of the said inclined extension of the tub. This sheet-metal flue is arranged parallel with the end wall of the inclined extension, so that when the main body of the tub is supported in the horizontal position illustrated in Fig. 2 the flue will incline as therein illustrated; but when the said body of the tub is tilted, as shown in Fig. 1, the flue will then assume a vertical position, so that its lower end will register with the wick-tube of a lamp, D, which is employed for raising the water within the tub to the required degree of temperature.

The tub is provided with a suitable axle, and supported upon a pair of wheels, E E, whereby it can be readily moved from place to place, and it is also provided at one end with handles F, for the attendant to take hold of, either in moving or in tilting the tub. The bars forming these handles can be extended below the tub, so as to form legs f, which, in connection with the wheels, serve to support the tub; or, if preferred, the handles and the legs can be made separately. To strengthen the legs I have shown braces G secured to the legs and to the body of the tub.

When the tub is tilted, as shown in Fig. 1, so as to bring the lower end of its flue directly over the flame of the lamp or heater, any suitable support can be placed under the legs, so as to maintain the tub in such position so long as may be necessary. When the tub is thus tilted the greatest depth of the water will be in the extension C, the relative depths between the water in the tub when it is in a horizontal position and when it is tilted being indicated by the dotted lines *xx*, Fig. 2, and the lines indicating water in Fig. 1. Hence, as shown in the last-mentioned figure, the water will rise to nearly the upper end of the flue when the tub is tilted, so that the water will be exposed to a larger heating-surface, and thereby become rapidly heated.

To further assist in heating the water, and to promote a constant circulation during the heating of the same, I provide the flue with a series of horizontal tubes, H, opening at both ends at the sides of the flue. The tubes are preferably arranged in sets, with the tubes of one set arranged crosswise with respect to the

tubes of the succeeding set, whereby the ascending hot air and products of combustion arising from the flame will be somewhat retarded and caused to circulate around the tubes, and thereby effectually heat the same. The walls of the flue will be heated, and in turn impart heat to the surrounding body of water, and the water within the heated tubes will also be heated, and owing to its expansion and diminished specific gravity will circulate upward, while its place will be supplied with the cooler water from the tub. It will be seen that the wheels and axle not only serve to support the tub to enable it to be readily moved around, but also afford pivots, by means of which the tub can be readily tilted, so as to throw the greater portion of the contained body of water into the extension and around the flue. After the water has been sufficiently heated the lamp or heater can be removed and extinguished and the tub wheeled to the place where it is to be used. The flue will not interfere with person taking a bath, since there will be ample room at the sides of the flue for the bather's feet.

What I claim is—

1. A portable bath-tub provided at one end with a hot-air flue, and pivoted upon a support, whereby the tub can be tilted, so as to throw the water to the end in which the flue is located, substantially as described.

2. A portable bath-tub provided at one end with an inclined extension, and with a hot-air flue arranged within said extension, the tub being pivoted upon a support, so that it can be tilted in order to cause the greatest depth of water to be at the point where the flue is located, substantially as described.

3. A portable bath-tub provided with an axle supported by wheels, and having at its end an inclined extension with a hot-air flue arranged therein, whereby the tub can be tilted, so as to cause the water to rise around the flue in order to expose the water to a greater area of heating-surface, and also so that the tub can be readily moved from place to place, substantially as described.

4. The combination, with the portable bath-tub provided at one end with an inclined extension, of the wheels and legs for supporting the tub, the handles, and the hot-air flue arranged in the said inclined extension, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

W. Q. PREWITT.

Witnesses:

JAMES L. NORRIS,
JAMES A. RUTHERFORD.