G. F. JOHNSON & D. WILDE.

Portable-Boiler.

No. 164,564. Patented June 15, 1875.

Fig: 1.

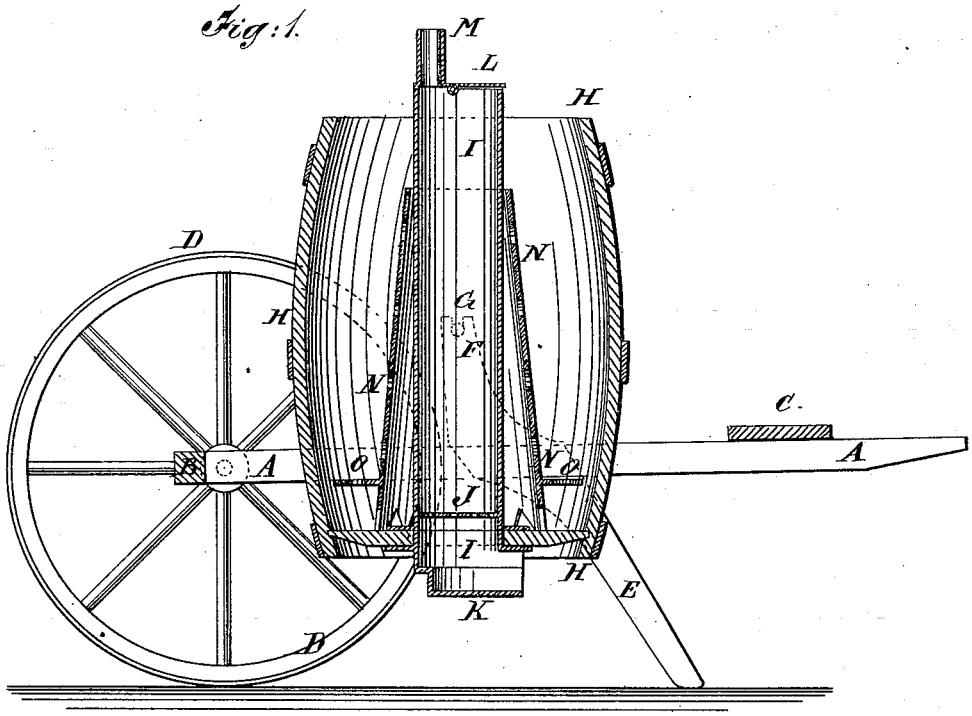
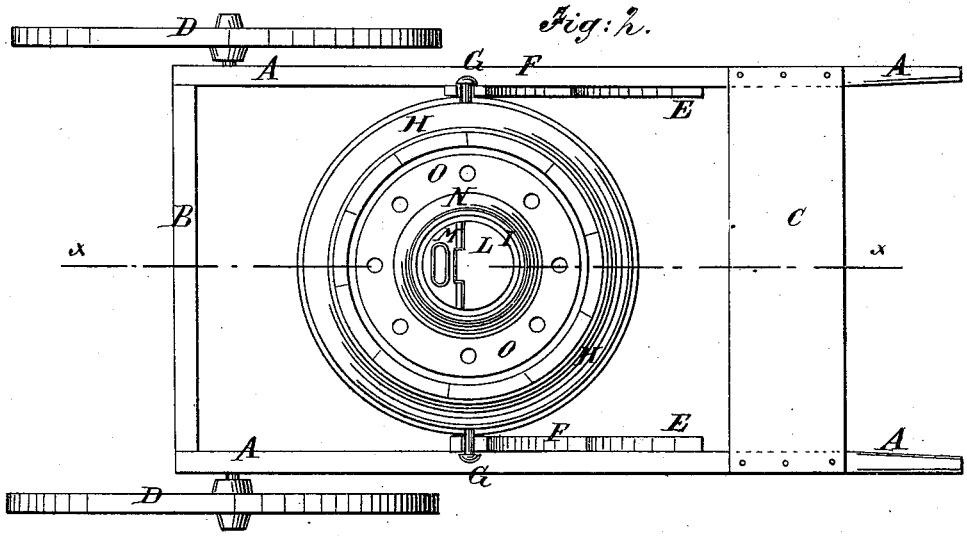


Fig: 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE F. JOHNSON AND DANIEL WILDE, OF WASHINGTON, IOWA.

IMPROVEMENT IN PORTABLE BOILERS.

Specification forming part of Letters Patent No. **164,564**, dated June 15, 1875; application filed May 15, 1875.

To all whom it may concern:

Be it known that we, GEORGE F. JOHNSON and DANIEL WILDE, of Washington, in the county of Washington and State of Iowa, have invented a new and useful Improvement in Portable Boiler for Cooking Feed, Boiling Clothes, &c., of which the following is a specification:

Figure 1 is a vertical longitudinal section of our improved boiler, taken through the line *x x*, Fig. 2. Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved boiler for cooking grain and other feed for stock, for boiling clothes, and other purposes, which shall be simple in construction, inexpensive in manufacture, and easily moved from place to place.

The invention consists in the combination of the side bars, the cross-bars, the wheels, the legs, the standards, the barrel, provided with gudgeons, and the cylindrical stove with each other; and in the combination of the perforated conical shield and the perforated flange with the stove, the barrel, the frame-work, and the wheels, as hereinafter fully described.

A are two side bars, connected at their forward ends by a cross-bar, B, and near their rear ends by a cross bar or board, C. To the forward ends of the side bars A are attached journals upon which revolve two wheels, D. The rear part of the frame is supported by two legs, E, attached to the side bars A. To the side bars A are attached standards F, which may be upward extensions of the legs E or separate pieces, as may be desired. The upper ends of the standards F are notched or slotted to receive the gudgeons G attached to the opposite sides of a barrel, H. The gudgeons G are attached to the barrel H near its center, so that it may be easily tipped to pour out its contents. The barrel H is open at the top, and in the center of its bottom is formed a hole to receive a galvanized-iron cylinder, I, which has a flange attached to it near its lower end, which is secured to the bottom of the barrel H. In the lower part of the cylinder I, at or a little above the bottom of the barrel H, is secured a grate, J, to support the fuel. To the bottom of the cylinder I is attached a chamber, K, open upon its rear side to receive the ashes. To the upper end of the cylinder I is attached a cover, L, part of which is stationary and part hinged or sliding, for convenience in putting in the fuel. In the stationary part of the cover L is formed a hole for the escape of the smoke, and which may be provided with a short pipe, M.

This construction of the stove I gives a strong draft, so that either wood or coal may be used for fuel, even when of a bad quality.

The grain or other feed to be cooked is placed in the barrel H, around the stove I, so that it may receive the full heat of the fire.

When the boiler is to be used for boiling clothes a conical shield, N, is placed around the cylinder I to keep the clothes from coming in contact with said cylinder and the lower end of which rests upon the bottom of the barrel H. To the shield N, a little above its lower end, is attached a flange, O, which projects nearly to the sides of the barrel H, to keep the clothes up a little from the bottom of the barrel H. The shield N and the flange O are perforated with numerous holes, to allow the water to circulate freely.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. The combination of the side bars A, the cross-bars B C, the wheels D, the legs E, the standards F, the barrel H, provided with gudgeons G, and the cylindrical stove I, with each other, substantially as herein shown and described.

2. The combination of the perforated conical shield N and the perforated flange O with the stove I, the barrel H, the frame-work A B C E F, and the wheels D, substantially as herein shown and described.

GEORGE F. JOHNSON.
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Witnesses:
JOHN H. WILDE,
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