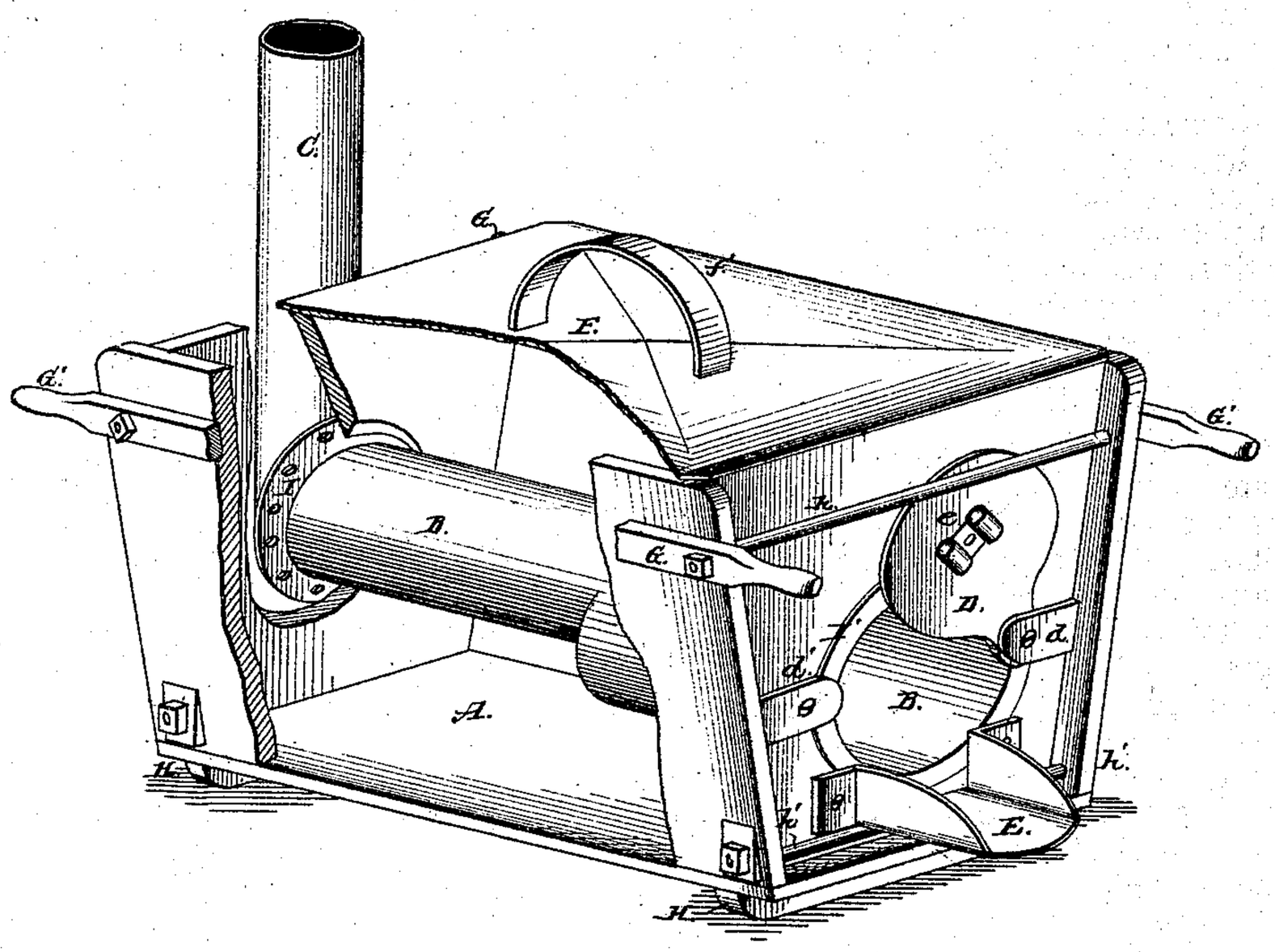
L. & C. FULLER.

AGRICULTURAL-BOILER.

No. 182,520. Patented Sept. 26, 1876.



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UNITED STATES PATENT OFFICE.

LEMUEL FULLER AND CHARLES FULLER, OF ROCKFORD, ILLINOIS.

IMPROVEMENT IN AGRICULTURAL BOILERS.

Specification forming part of Letters Patent No. **182,520**, dated September 26, 1876; application filed July 20, 1876.

To all whom it may concern:

Be it known that we, LEMUEL FULLER and CHARLES FULLER, of Rockford, in the county of Winnebago and State of Illinois, have invented a new Improvement in Agricultural Boilers; and we do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The drawing represents the boiler in perspective, with one of the sides broken away, showing the fire-box and draft-flue.

Corresponding letters indicate different parts.

The object of this invention is to provide a cheap portable boiler, to be used on the farm, for the purpose of heating water, cooking food for stock, or for any other purpose for which it may be applicable. It consists of a metallic fire-box and draft-flue in one piece, cylindrical in form, and having the usual smoke-flue, and provided at its ends with metal flanges, by means of which the same is secured within a wood body or box, having oblique sides, and supported on rockers for the convenience of removing the cooked food, provided with a removable cover for retaining the heat when in use, and adapted to hold water to be heated, or food to be cooked, and so constructed that the fire-box is submerged within the fluid, thus preventing injury to the wooden portions of the boiler by heating or otherwise. It further consists of handles for carrying purposes, and rockers or cleats across the bottom upon the outside, by means of which the receptacle can be easily laid upon the side, and the food advantageously removed by shoveling or otherwise without removing the fire, or endangering any of the parts, all of which will be hereinafter described.

In the drawings, A represents the body or box, preferably made of wood, and B the longitudinal smoke-flue extending through the same. B′ represents the fire-box at the front end of the said flue, and forming a portion of the same. This fire-box may be provided with a fire-grate, if desired. C is a vertical smoke-flue rising from the longitudinal flue B, and a continuation of the same. D is the fire-box door, located at the end of the boiler, and rests against the metal flange upon the outside of the same. *d* is the hinge, and *d′* the fastening by which the door is secured. *e* is a handle placed upon the outer face of the door, and by which the said door is vertically opened or closed. E is a lip, projection, or hearth, secured to the end of the boiler immediately beneath the door of the fire-box, and by which the dropping of coals, ashes, &c., upon the combustible part of the boiler or its surroundings is prevented. F is the cover to the boiler, and *f* the handle to the same, by means of which the heat may be retained within the vessel, or removed when desired. G are longitudinal bars, made of wood, placed upon the outside of the boiler, near the top edge, and provided upon their ends with handles G′, extending out from the boiler far enough for persons to grasp the same, and thus transport the boiler from place to place. These handles are also used when the boiler is rocked over upon its sides for the purpose of removing the cooked food. H are rockers, placed transversely on the bottom, for raising the boiler from the ground or floor, and also for enabling the boiler to be placed upon its side for the purpose before mentioned. *h h′* are tie-bolts passing through the ends of the body, and by which the side pieces are held in place. The ones *h* pass through the lifting-bars, and by the head and screw nut all the parts are rigidly secured. I is a metal flange encircling and fastened to the draft-flue B near the end. I′ is a flange performing the same function at the end wherein the fire-box B′ is located. These flanges are secured by water-tight joints to the body A, near its longitudinal center, and in such manner that the wooden portions of the body will not come in close contact with the cylindrical flue containing the fire. Packing may be used between these flanges and the wood, to prevent leakage. For the purpose of drawing off the fluids a cock, or a hole supplied with a plug, may be used.

By the above-described construction a cheap portable farm-boiler is made, and adapted for use in any manner for which it is applicable.

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

1. In an agricultural boiler having a removable cover upon a body with oblique sides and

resting upon rockers, the combination of the wooden body A, metallic longitudinal flue B, the said flue enlarged at one end to form the fire-box B, and the other end provided with the smoke-flue C, all arranged and operating substantially as described.

2. The combination of the body A, flue B, having flanges I, carrying-bars G, tie-rods *h h'*, and rockers H, all these parts arranged and operating substantially as described, and for the purpose set forth.

This specification signed and witnessed this 20th day of June, 1876.

LEMUEL FULLER.
CHARLES FULLER.

Witnesses:
G. W. FORD,
CHARLES S. FORD.