(No Model.)

M. B. MILLS & C. B. RICE.

Feed Cooker.

No. 232,101. **Patented Sept. 7, 1880.**

Fig 1

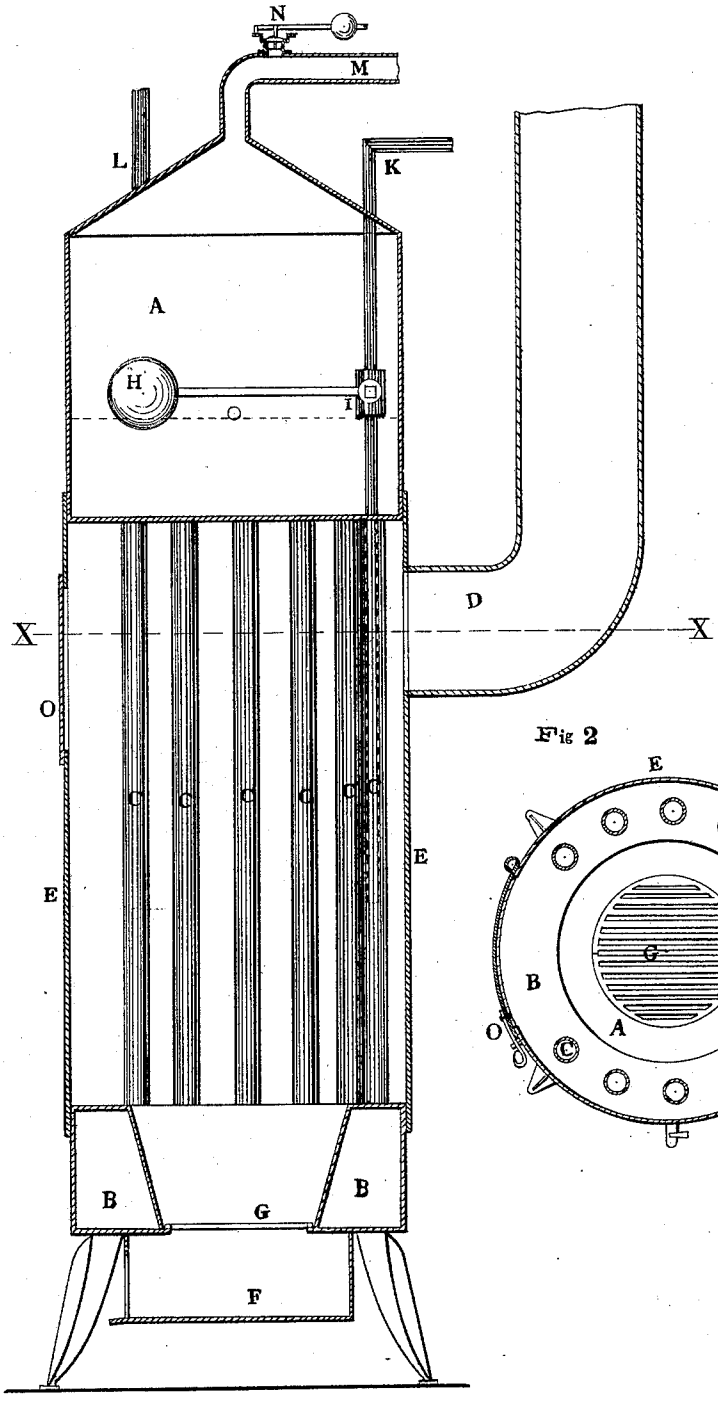


Fig 2

Witnesses:
L. Holmboe
D W Eldred

Inventors:
Matthew B. Mills
Chas. B. Rice.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

MORTIMER B. MILLS AND CHARLES B. RICE, OF CHICAGO, ILLINOIS; SAID MILLS ASSIGNOR TO SAID RICE.

FEED-COOKER.

SPECIFICATION forming part of Letters Patent No. 232,101, dated September 7, 1880.

Application filed March 22, 1880. (No model.)

To all whom it may concern:

Be it known that we, MORTIMER B. MILLS and CHARLES B. RICE, both of Chicago, Illinois, have invented a new and useful Improvement in Feed-Cookers, which is fully described in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 represents a vertical section of our improved feed-cooker; and Fig. 2, a horizontal section taken on the line *x x*, Fig. 1.

Our invention is an improvement in the class of steam-generating apparatus for use in cooking feed for live stock.

We aim to provide an apparatus which shall be compact in form, adapted for heating the water quickly, and provided with means for automatically regulating the supply of water, the latter, when admitted, being discharged downward into the lower chamber of the boiler, where the highest degree of heat is available.

The details of construction and arrangement of parts are as hereinafter described and claimed.

In the drawings, A represents a steam-chest with holes at the bottom to receive the pipes C, which are made water-tight. The lower ends of the pipes C are screwed into a hollow cast-iron cylinder, B, the center of which is made so as to receive a grate, G. At the bottom of the cylinder B and under the grate G is an ash-pan, F, and there are legs P attached to the bottom of the cylinder B.

A drum or jacket, E, surrounds the pipes C, so as to retain the fire and smoke.

D is the smoke-pipe, and O the door for putting in the fuel.

H represents a copper ball, which is hollow and connected to the water-cock I, so as to shut off the opening in the latter when the water rises above the high-water mark.

K is a pipe to be attached to the water-reservoir to supply the boiler when necessary.

L is a pipe to be connected to the top of the reservoir to supply the latter with steam-pressure to counterbalance the pressure in the boiler.

The steam-pipe M conducts the steam to the feed to be cooked.

N is a safety-valve.

We do not claim, broadly, the automatic regulation of the supply of water to a boiler by means of a float and lever connected with a cock in the water-inlet pipe.

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

1. The improved steamer for use in cooking food for live stock, the same consisting of the water-chambers A B, pipes C, connecting the same and arranged in a circle, the surrounding casing E, water-induction, steam, and smoke pipes, attached as specified, and the water-supply-regulating device, consisting of the lever, float, and cock in pipe K, inclosed in the chamber A, all as shown and described.

2. In a steamer for use in cooking food for live stock, the combination, with the upper and lower water chambers, A B, and vertical connecting-pipes C, of the water-supply pipe K, which passes through the upper chamber and enters one of said pipes C, as shown and described.

MORTIMER B. MILLS.
CHAS. B. RICE.

Witnesses:
JAMES A. KINGSBURY,
D. J. BOYNTON.