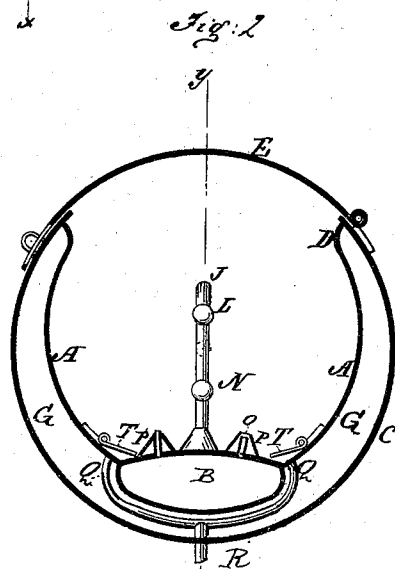
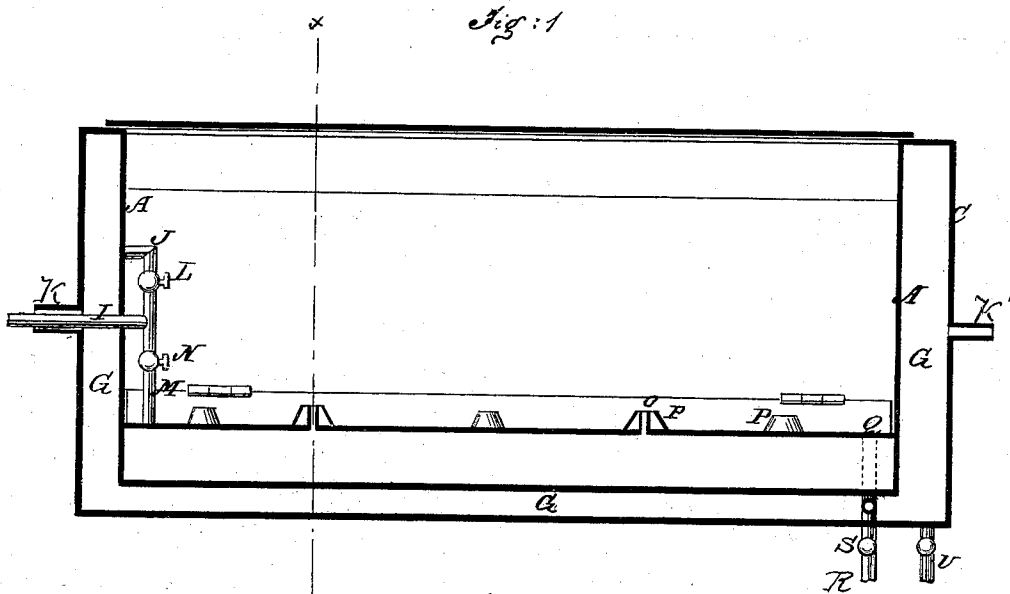


C. SEAMAN.
Feather-Renovators.

No. 148,146.

Patented March 3, 1874.



Witnesses:

Chas. Nida.
Attest

Inventor:

C. Seaman

Per

Munnell

Attorneys.

UNITED STATES PATENT OFFICE.

CHARLES SEAMAN, OF ST. JOSEPH, MISSOURI.

IMPROVEMENT IN FEATHER-RENOVATORS.

Specification forming part of Letters Patent No. 148,146, dated March 3, 1874; application filed April 5, 1873.

To all whom it may concern:

Be it known that I, CHARLES SEAMAN, of St. Joseph, in the county of Buchanan and State of Missouri, have invented a new and Improved Feather-Renovator, of which the following is a specification:

This invention relates to certain improvements in that class of feather-renovators which are provided with a feather-chamber, drying-chamber, and steam-supply chamber; and it consists in providing the steam-supply chamber with a series of nozzles or tubes for admitting the steam into the feather-chamber, said nozzles being combined with surrounding chambers or jackets, which are designed to prevent the open ends of the steam-nozzles from clogging. The invention further consists in the provision of waste passages or tubes for conducting liquid substances from the feather-chamber, the upper ends of said passages being partially closed by hinges or movable covering-plates, which, while permitting the escape of liquids, will prevent solid matter and feathers from entering the waste-passages.

Figure 1 is a longitudinal sectional elevation of my improved feather-renovator, taken on the line *x x*, Fig. 2; and Fig. 2 is a transverse section taken on the line *y y*, Fig. 1.

A is the holder, B is the heater and distributor at the bottom of it, and C is the inclosing-cylinder. The edges of the holder are united to the cylinder at D, and the cylinder has a long wide door, E, over the top of the holder, opening directly into it. The holder is not quite as large as the cylinder, so that there is an inclosed heating-space, G, at the sides and ends of the holder. I is the pipe, which admits the steam from a boiler through one of the journals K of the cylinder, which is hollow. Inside of the holder it has a branch, J, with a stop-cock, L, for admitting the steam to space G, also a branch, M, with a cock, N, admitting steam to the heater and distributor B. This distributor has numerous small pipes, O, discharging into the holder. They are protected from injury by the covers P, to distribute steam throughout the contents of the holder to be steamed. It also has waste-passages Q

for the condensed water discharging through pipe R, which has a cock, S, which is shut while the steam is to be kept in. These discharge-passages are protected against choking with dirt, feathers, hair, &c., by the covers T, which do not shut down close enough to prevent the escape of the water, and they are hinged so that they can be raised readily to clean out the spaces under them, also the passages, when needed. U is an escape-pipe for the water from the space G. The opening through the doors E is large, so that feather-beds, mattresses, and the like can be readily put in to be treated and taken out.

I propose to use disinfecting fluid with the water of which the steam is made, to kill any contagious and other foul matters that may be contained in the beds or mattresses. The machine may be revolved or not while treating the feathers, &c.

The steam is first admitted directly to the holder through the distributor to thoroughly steam the contents. It is then shut off from it and admitted to the space G to dry off the moisture. In case the apparatus is made stationary, I will have the inlet steam-pipes arranged on the outside, so that it will be more convenient to actuate the cocks.

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

1. In combination with the feather chamber or receiver A, steam-supply chamber B, and nozzles O, chambers or jackets P, surrounding said nozzles, for preventing the ingress of feathers, dirt, and other substances into the same, as and for the purpose herein set forth.

2. In combination with the feather-chamber A and waste-passages Q, the hinged covering-plates T, arranged in proper respect to the upper ends of said passages, for the object specified.

CHARLES SEAMAN.

Witnesses:

DENNIS BURNS,
SAM. READ.