(No Model.)

S. GIBSON.

FEATHER RENOVATOR.

No. 246,494. Patented Aug. 30, 1881.

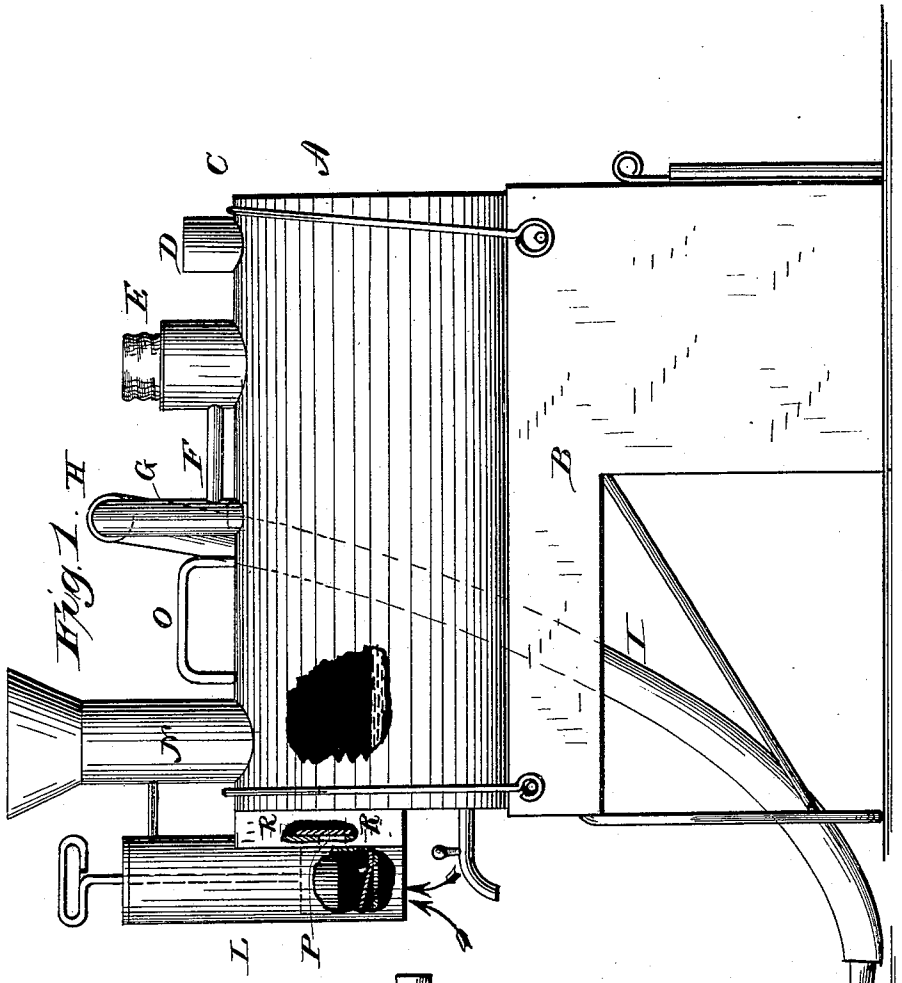


Fig. 1.

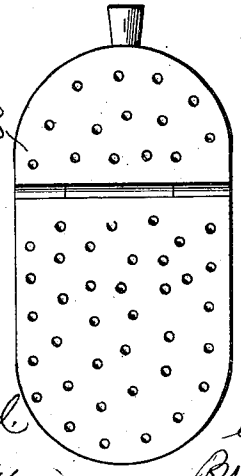


Fig. 2.

Witnesses.
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Inventor.
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N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

SAMUEL GIBSON, OF YORK, PA., ASSIGNOR OF ONE-HALF TO JOHN VANHYNING, OF SAME PLACE.

FEATHER-RENOVATOR.

SPECIFICATION forming part of Letters Patent No. 246,494, dated August 30, 1881.

Application filed July 27, 1881. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL GIBSON, of York, in the county of York, and in the State of Pennsylvania, have invented certain new and useful Improvements in Feather-Renovators; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the arrangement of a movable steam-boiler provided with an alcohol-chamber and an air-pump, and also with a detachable pipe adapted to be connected at will with a pipe leading from the steam-boiler and alcohol-chamber or from the air-pump to a distributer, which may be inserted directly into a bed-tick among the feathers contained therein, for the purpose of renovating the same and drying them without removal, as will be more fully hereinafter set forth. These objects I attain by the mechanism illlustrated in the accompanying drawings, in which—

Figure 1 illustrates a side elevation of the boiler, showing the same properly located upon a furnace; and Fig. 2, a plan of the distributer to be inserted in the tick and the connecting-pipe by means of which it can be connected to the boiler or the air-pump.

The letter A indicates a steam boiler or generator, which is confined upon a furnace, B, made to receive it, or upon an ordinary stove, by means of the metal bands C, which are secured to the furnace or stove, and which are adapted to pass over the ends of the boiler for the purpose.

The letter D indicates an induction-tube, through which the boiler or generator may be charged with water, the said tube being provided with a suitable cap, by means of which it may be closed.

The letter E indicates an alcohol chamber or vessel located on top of the boiler, from which extends a pipe, F, connecting with a steam-pipe, G, leading from the boiler or generator. The said pipe G is adapted to receive the pipe H, which is connected to one end of a flexible tube, I, the other end of which connects with a perforated or reticulated distributer, K, which is of such size and shape as to be conveniently inserted in a bed-tick among the feathers to be renovated.

At the forward end or other convenient portion of the boiler is located an air-pump, L, which communicates with the boiler by means of an opening, P, provided with a suitable valve, R, so that a supply of heated air may be sent through the boiler, and from thence through the distributer when desired.

The letter N indicates the smoke-stack of the apparatus, and O a bail by means of which the boiler or generator may be conveniently handled.

To employ my improved apparatus for renovating feathers the distributer is inserted in the interior of the bed-tick containing the feathers through a suitable opening made therein for the purpose. The pipe H is then connected with the pipe I, and the steam generated in the boiler, together with the vapors generated in the alcohol-chamber, pass over into the distributer, from whence they are disseminated throughout the feathers. When thoroughly renovated or cleansed air is forced through the boiler and distributer by means of the air-pump, thus accomplishing the renovation and drying of the feathers without removing the same from the tick.

Having thus fully described my invention and the method of operation of the same, what I claim, and desire to secure by Letters Patent, is—

1. In combination with the boiler or generator and the steam-pipe leading therefrom, the alcohol-chamber connecting with said steam-pipe, and the common distributer adapted to be connected with the said steam-pipe and to be inserted in the bed-tick, substantially as and for the purposes specified.

2. In combination with the steam-boiler or generator, and communicating with the interior thereof, the air-pump attached to said boiler, and the perforated distributer adapted to be connected with a pipe leading from said boiler, whereby a current of heated air may be forced through the feathers to dry the same after cleansing, substantially as specified.

In testimony that I claim the foregoing I have hereunto set my hand this 15th day of November, 1880.

SAMUEL GIBSON.

Witnesses:

H. AUBREY TOULMIN,

C. A. NEALE.