T. A. Campbell.

Wool Oiling Mach.

No. 51,891. Patented Jan. 2, 1866

Fig. 1

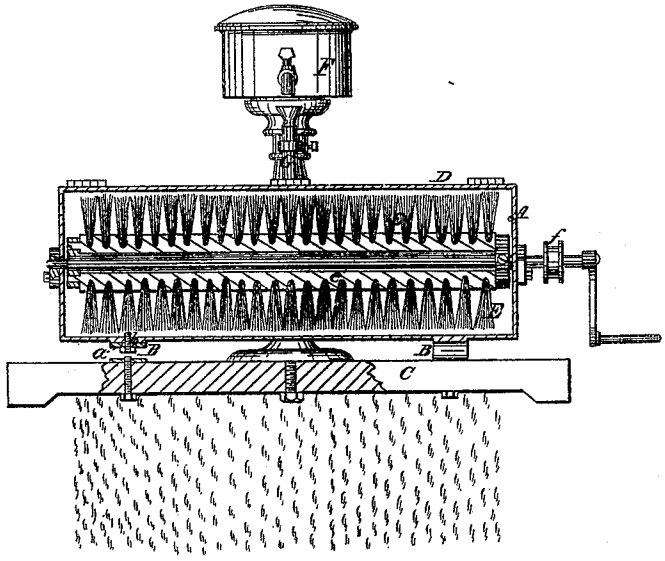
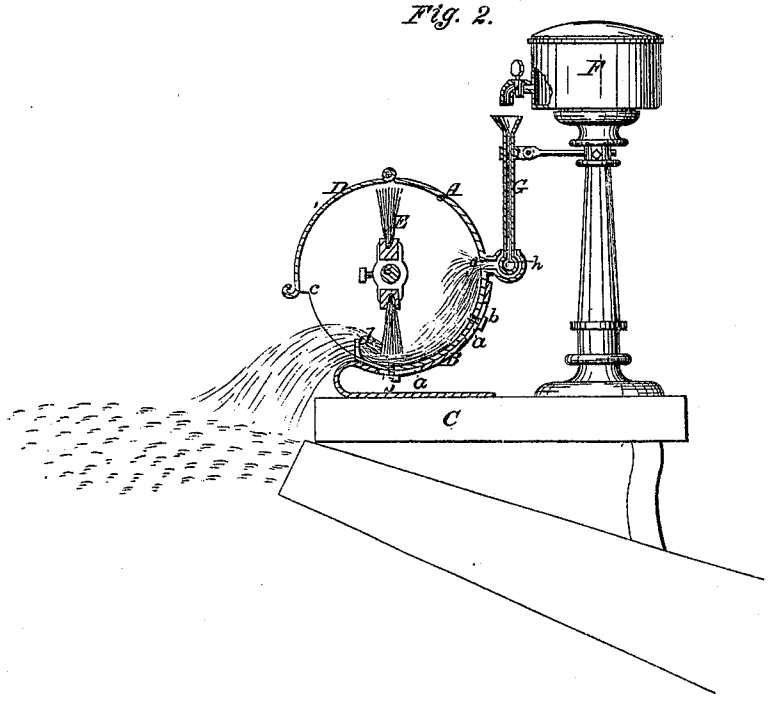


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

THOMAS A. CAMPBELL, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND C. L. GODDARD, OF SAME PLACE.

IMPROVEMENT IN MACHINERY FOR OILING WOOL, &c.

Specification forming part of Letters Patent No. **51,891**, dated January 2, 1866.

To all whom it may concern:

Be it known that I, THOMAS A. CAMPBELL, of the city, county, and State of New York, have invented a new and Improved Machine for Oiling Wool; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a sectional front elevation of this invention. Fig. 2 is a transverse vertical section of the same.

Similar letters of reference indicate like parts.

This invention relates to an apparatus which is composed of a brush secured to a revolving shaft which has its bearings in the ends of a cylindrical case. Said case is cut open at its front side, and it is supplied with oil through one or more holes in its back, the oil being admitted from a suitable tank or reservoir. The brush, on being revolved in the case, takes up the oil, and by coming in contact with a lip formed by the edge of the opening in said case throws the oil in the form of spray, over the wool as the same leaves the picker or any other equivalent machine. The case is secured to the bed-plate by slotted bearers, so that it can be adjusted to apply to the wool a larger or smaller quantity of oil, and the pipe which conducts the oil from the reservoir to said case is arranged with a hollow globe-shaped valve, so that it is free to accommodate itself to the various positions of the case.

A represents a case, made of sheet metal or any other suitable material, in the form of a cylinder or any other suitable form or shape. This case is supported by curved bearers B, which rise from a bed-plate, C, and are provided with slots *a* to receive the screws *b*, which serve to secure the case to them, and by means of these slotted bearers the case can be moved on its center so as to turn its opening or mouth *c* up or down. The front part of the case A is cut open, and the opening *c* is partially closed by a hinged cover, D, as clearly shown in Fig. 2 of the drawings. The lower edge of the opening *c* forms a lip, *d*, against which the brush E strikes in its revolution, and whereby its bristles are so deflected as to discharge the oil from the case in the form of a fine spray.

The brush E is secured to a shaft, *e*, which has its bearings in the heads or ends of the case A, and to which a rapid revolving motion is imparted by a belt running over a pulley, *f*, or by any other suitable means.

The case A is provided with one or more apertures, *g*, in its back, through which it is supplied with oil from a tank or reservoir, F. The pipe or pipes G conducting the oil from the reservoir to the case are provided at their lower ends with globe-valves *h*, fitting into corresponding sockets or seats projecting from the back of the case, as shown in Fig. 2, and by this arrangement the said pipe or pipes are enabled to accommodate themselves to the varying position of the case.

The bed-plate C is adjusted over the mouth of a picker or other equivalent machine, and as the wool discharges from said picker the oil is thrown on it in the form of a fine spray. By turning the opening in the front of the case down the oil discharged from said case is condensed over a smaller space than it is when the case is turned up. In the latter position the oil is caused to spread over a large area before it comes in contact with the wool, and each single particle of wool takes up less oil than it does if the opening in the case is turned down. The quantity of oil thrown on the wool can thus be regulated at pleasure, and the operation of oiling is performed as the wool leaves the picker, and much time and labor are saved.

It is obvious that the apparatus may also be used for moistening wool with other liquids besides oil.

I claim as new and desire to secure by Letters Patent—

1. The case A and tube G, arranged as herein shown, to convey a gradual supply of oil to the rotary brush E without the aid of rollers, and to prevent the scattering and waste of the oil.

2. Making the case A adjustable on the bearers B, substantially as and for the purpose described.

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Witnesses:

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