

(No Model.)

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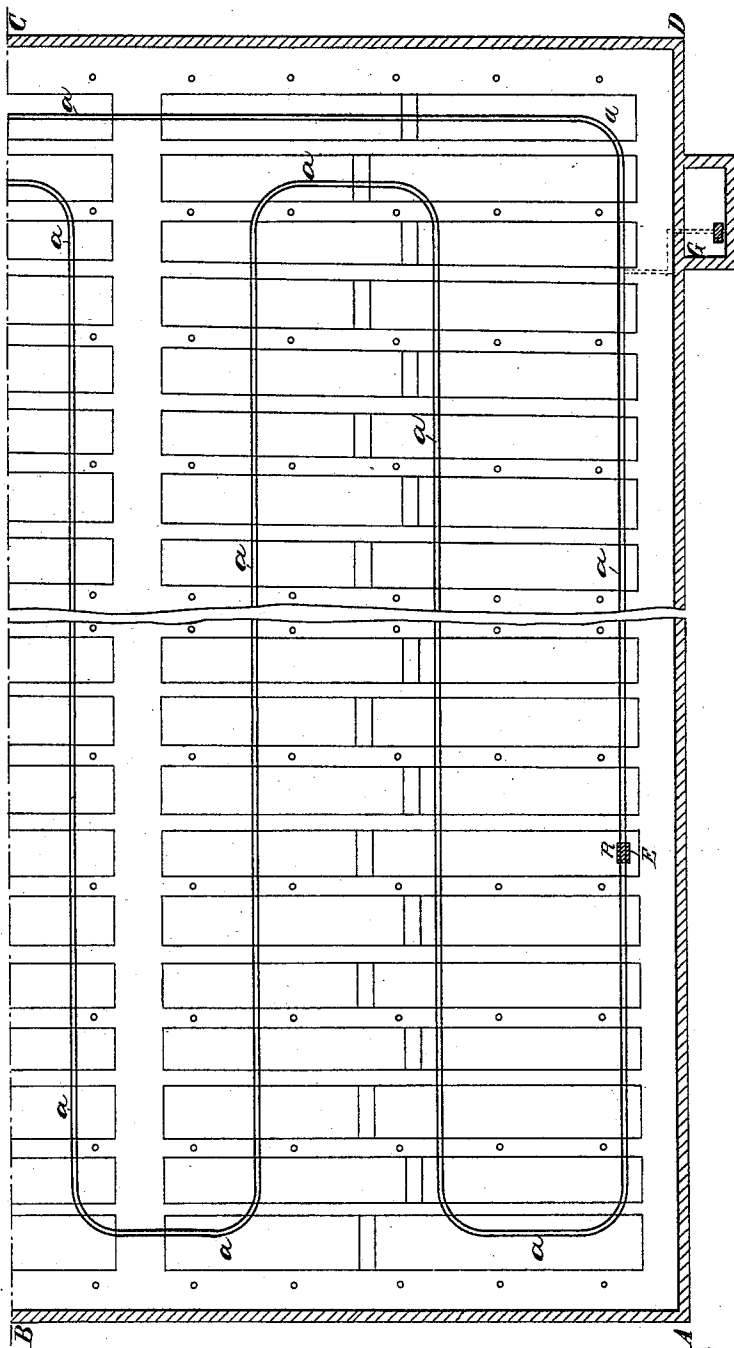
A. KOECHLIN.

APPARATUS FOR MOISTENING THE ATMOSPHERE IN MILLS, FACTORIES, &c.

No. 384,630.

Patented June 19, 1888.

FIG. 1.



Witnesses:

John M. Speer.  
J. F. Bourne.

Inventor:

Albert Koehlin  
by his attorneys  
Briesen & Steele

(No Model.)

4 Sheets—Sheet 2.

A. KOECHLIN.

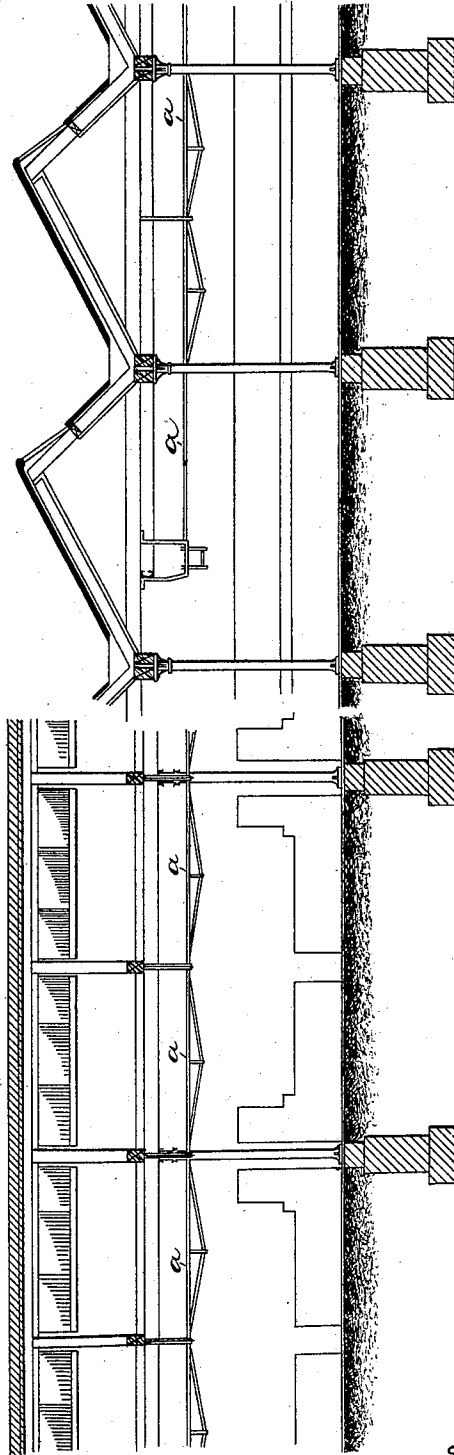
APPARATUS FOR MOISTENING THE ATMOSPHERE IN MILLS, FACTORIES, &c.

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FIG. 3.

FIG. 2.



Witnesses:

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T. F. Bourne.

Inventor:

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(No Model.)

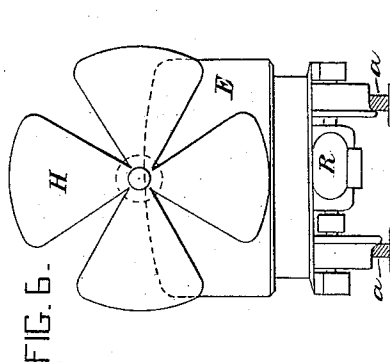
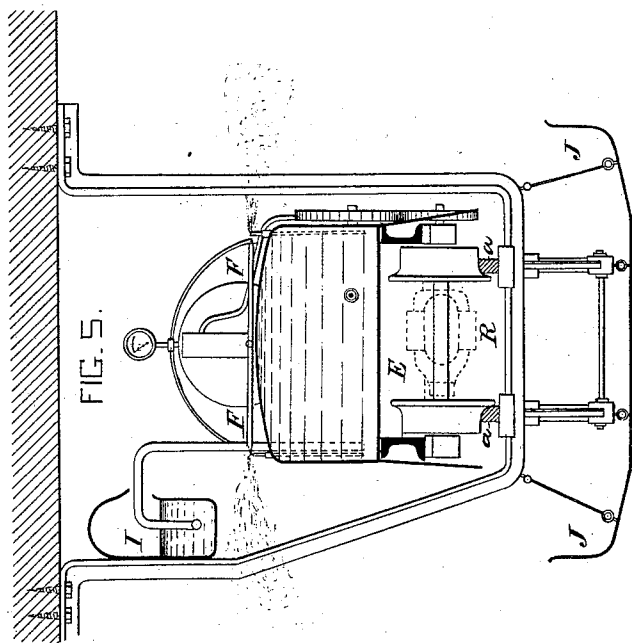
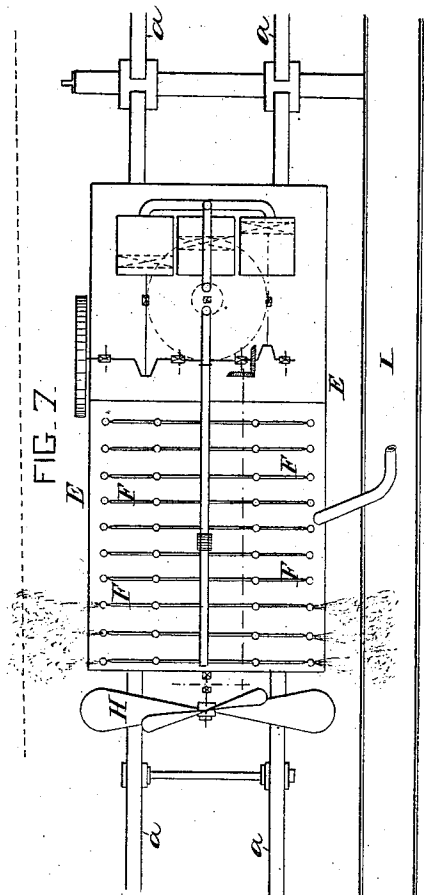
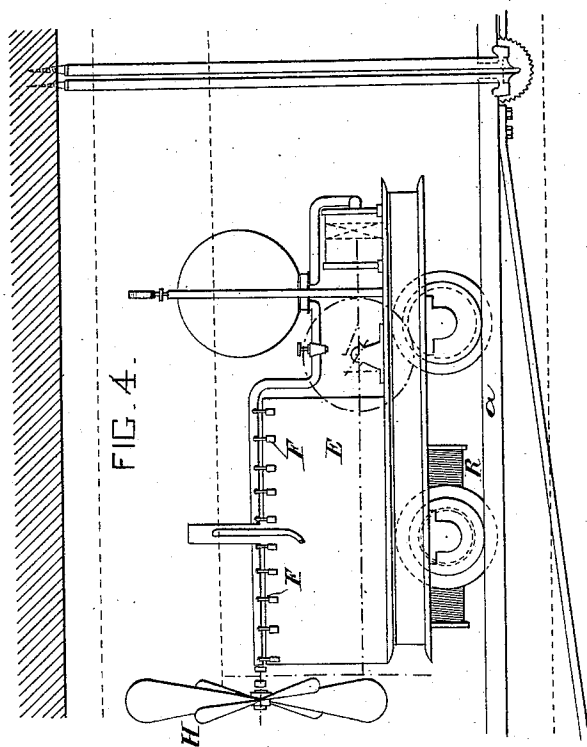
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Witnesses:

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(No Model.)

4 Sheets—Sheet 4.

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APPARATUS FOR MOISTENING THE ATMOSPHERE IN MILLS, FACTORIES, &c

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FIG. 8.

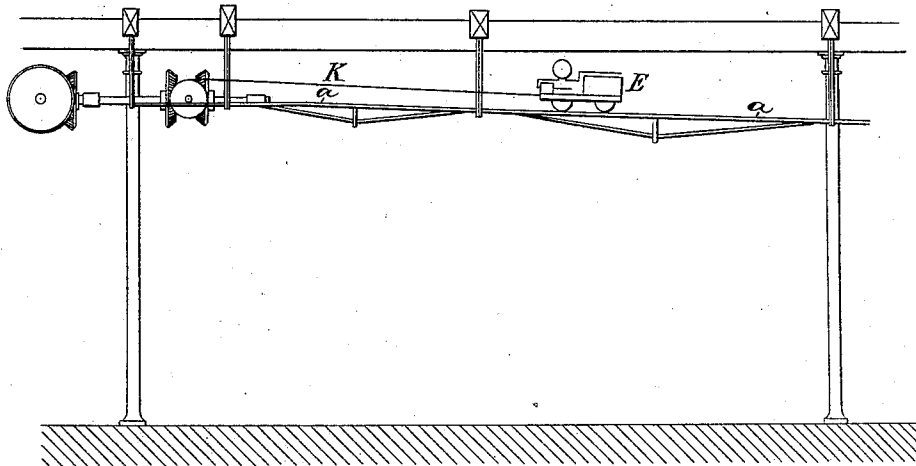


FIG. 9.

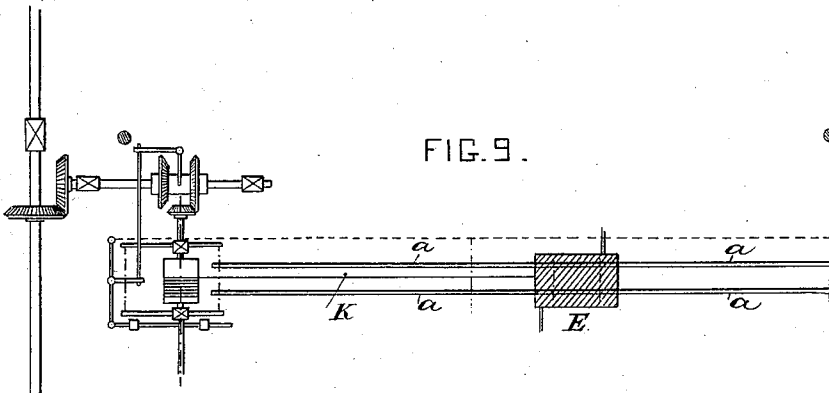
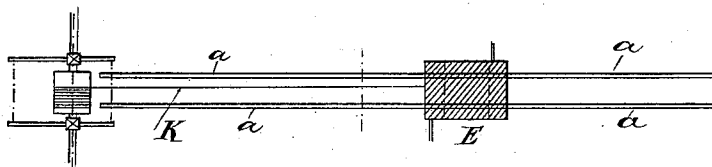


FIG. 10.



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by his attorney,  
Briese & Steep.

# UNITED STATES PATENT OFFICE.

ALBERT KOECHLIN, OF MÜLHAUSEN, ALSACE, GERMANY.

APPARATUS FOR MOISTENING THE ATMOSPHERE IN MILLS, FACTORIES, &c.

SPECIFICATION forming part of Letters Patent No. 384,630, dated June 19, 1888.

Application filed September 7, 1886. Serial No. 212,883. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT KOECHLIN, of the city of Mülhausen, Alsace, Germany, have invented a new and Improved Apparatus for  
5 Moistening the Atmosphere in Mills, Factories, and other Places, of which the following is a full, clear, and exact description.

Figure 1 is a sectional plan view of a room adapted for my invention. Fig. 2 is a longitudinal vertical section of same; Fig. 3, a cross-section thereof; Fig. 4, a detail side view of the spray-carriage; Fig. 5 a cross-section,  
10 Fig. 6 an end view, and Fig. 7 a top view, of said spray-carriage. Figs. 8, 9, and 10 are side and top views of a modification of the invention.

This invention relates to improved self-acting apparatus for moistening the atmosphere in mills, factories, and other places.

20 In order to moisten the air in manufactories, and more especially in mills for spinning and weaving, atomizers or spray-producing apparatus are generally employed, which are fixed at different points of the space to be moistened. The practical objection to the use of  
25 a stationary apparatus is that the atmosphere in the immediate neighborhood only of the apparatus becomes moistened.

This invention has for its object to obviate  
30 this objection by causing the spray producing apparatus to travel in a self-acting manner in a prescribed circuit—that is, on an endless track, whereby the whole atmosphere of the room will be suitably moistened.

35 In order that the invention may be more readily understood, I will proceed to describe it with reference to the accompanying drawings, which illustrate one example of the locomotive spray-producing apparatus.

40 Fig. 1 represents a part plan of a spinning-room, A B C D, in which *a a* represent an endless line of railway placed either upon the floor or at a suitable height above it, upon which travels a carriage, E, carrying water-spray pipes F F, Figs. 4, 5, and 7, of any suitable kind, which act during the time the carriage E is in motion. The traveling motion  
45 of the carriage E and the action of the spray apparatus F, mounted thereon, are preferably produced by a dynamo-electric motor, R, Figs. 4, 5, and 6, mounted on the carriage and actuated by a stationary dynamo-electric generator, G, Fig. 1, or otherwise.

Figs. 2 and 3 represent the railway *a a* as suspended from the rafters.

Figs. 4 to 7 represent different views of the carriage E. These figures also illustrate the arrangement of the spray-pipes through which the water is forced in suitable manner by the movement of the carriage E.

H is a fan carried by the carriage E and revolved in suitable manner. It may be employed to promote the diffusion of the moisture through the surrounding atmosphere.

I is a trough for maintaining a continuous supply of water to the tank of the carriage.

J is a stationary tray beneath the track for receiving the surplus water.

In the above arrangement the continuous circulation of the carriage is produced by means of an electric current; but the arrangement shown in Figs. 8, 9, and 10 may be adopted in lieu thereof, in which one or more carriages E, carrying spray-producers, are moved to and fro by means of a cable, K, or other suitable means of transmission, driven by gearing, as shown.

The invention is applicable in all cases where it is desired to saturate the air with moisture, such as in public and private establishments, work-shops, concert-rooms, theatres, &c. The apparatus may also be used for saturating or charging the atmosphere in hospitals, for example, with vapors or liquids of an antiseptic or other nature.

I claim—

1. The combination, in a room, of the carriage E and its spray-pipes F F, with the endless track *a*, and mechanism, substantially as described, for moving said carriage continuously along the endless track and spraying the whole room, substantially as herein shown and described.

2. The combination, in a room, of the carriage E, having a water-tank, spray-pipes F, and fan H, with the endless track *a*, and with the continuous trough I, adapted to keep up a continuous supply of water to the tank, as set forth.

ALBERT KOECHLIN.

Witnesses:

ROBT. M. HOOPER,  
CAMIELE CHASSEVENT.