(No Model.)

E. H. LYNCH.

AIR COOLING APPARATUS.

No. 304,657. Patented Sept. 2, 1884.

Fig. 1.

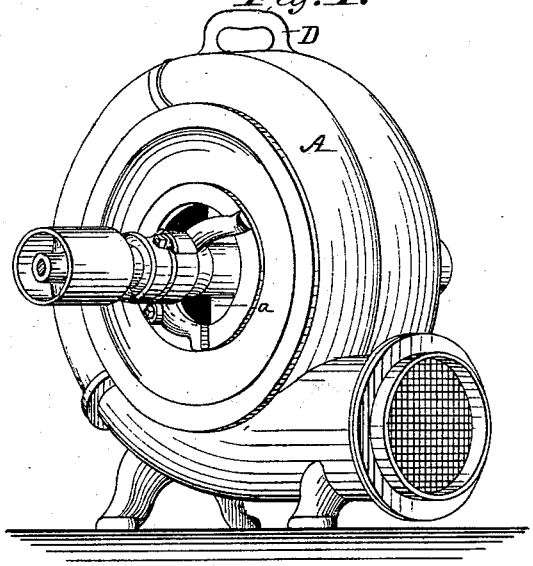
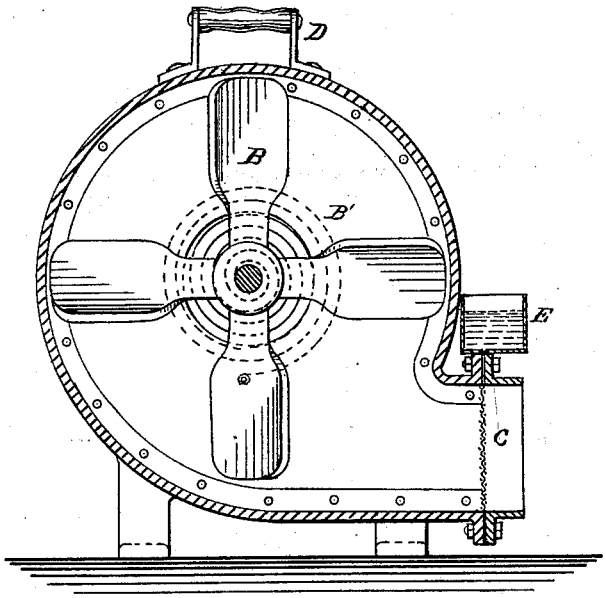


Fig. 2.



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EVA HUFFMAN LYNCH, OF ROME, NEW YORK.

AIR-COOLING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 304,657, dated September 2, 1884.

Application filed August 4, 1884. (No model.)

To all whom it may concern:

Be it known that I, EVA H. LYNCH, a citizen of the United States, residing at Rome, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Air-Cooling Apparatus, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in air-cooling devices, the object of which is to provide a fan-blower which will be light and readily carried from place to place, and at the same time be neat and attractive in appearance.

My invention therefore consists in making or molding a fan-blower for use in cooling or changing the air of rooms or apartments, of paper-pulp, and in certain other details of construction which will be fully described hereinafter, and pointed out in the claims.

In the drawings, Figure 1 is a view in perspective of the fan-blower. Fig. 2 is a longitudinal sectional view.

A is the casing or shell of the air-cooling device, molded, stamped, spun, or otherwise formed of paper-board or paper-pulp. I prefer, however, to mold the same in any suitable manner from paper-pulp in two sections, and bolt them together. The pulp may be mixed or treated with any of the well-known water-proof compounds, so that the articles formed therefrom will be impervious to moisture, and when it is desired to use water to assist in cooling the room or apartment, or chemical disinfectants, or perfume, it can be done without warping the walls of the blower or in any manner detracting from its usefulness. The walls of the casing of shell are provided with openings or apertures *a*, through which the air is drawn and driven into the room in a highly-agitated condition by the fan B. The fan B is also made of paper-board or molded from paper-pulp, and may be treated in the same manner as the shell or casing to render the same water-proof. The fan is mounted on a suitable shaft in proper bearings, so that it will work snugly within the casing A, and is adapted to be driven by hand or by any suitable power. I prefer, however, to drive the fan by a spring, B′, or by weights or clock mechanism. This will enable me to make a portable device which can be carried from room to room, and not be dependent on steam or other stationary power to run the machine. This class of devices has heretofore been made of metal, and as a natural consequence is much heavier than when made from paper or paper-pulp, and, furthermore, the metal devices make more or less noise in running, owing to the resonant properties of the metal, thus rendering them unfit for sick-rooms, and highly objectionable to nervous people; but by my invention I am enabled to make a practically noiseless machine which can be used by all persons and in all places where a draft of cool air is wanted. In cases where moist air is desired, or when a perfume or disinfectant is required, I provide the blower with one or more barriers of open-mesh-woven material, C, and connect such woven material with a compartment or vessel, E, in which the water or liquid compound is stored, so that the fabric will be kept moist by capillary attraction, and when the air is driven through the meshes of the fabric it will be charged with moisture, perfume, or medicated liquid, which not only improves the sanitary condition of the apartment, but also cools the room more rapidly, as is well known in this class of devices.

D is a handle secured to the upper portion of the device, and by which it can be carried around from place to place.

It will be apparent that by making the blower in the manner and of the materials named I am enabled to produce a device which will be an ornament and luxury to any parlor, whereas, if they were made of metal, they could not be used to advantage for any of the purposes named, and it is only by making them of the material named that I am enabled to combine strength with lightness, so that the most delicate and feeble person can move it from point to point or from room to room.

The device can be placed on a sewing-table, or on a stand near the bedside, so that wheth-

er sleeping or waking a person is at all times enabled to be in a cool and refreshing draft.

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

1. In an air-cooling device, a fan-blower made of paper-board or paper-pulp, as and for the purpose set forth.

2. An air-cooling device consisting of a shell or casing and a fan located therein, both of which are made of paper-board or paper-pulp, as set forth.

3. An air-cooling device consisting of a blower made of paper-board or paper-pulp, and a clock mechanism for driving the fan of said blower, as set forth.

4. An air-cooling device consisting of a fan-blower made of paper-board or paper-pulp, and provided with open-mesh fabric adapted to be moistened, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

EVA HUFFMAN LYNCH.

Witnesses:

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