

(Model.)

L. DAVIS.
Fan Attachment for Elevators.

No. 227,497.

Patented May 11, 1880.

Fig. 2.

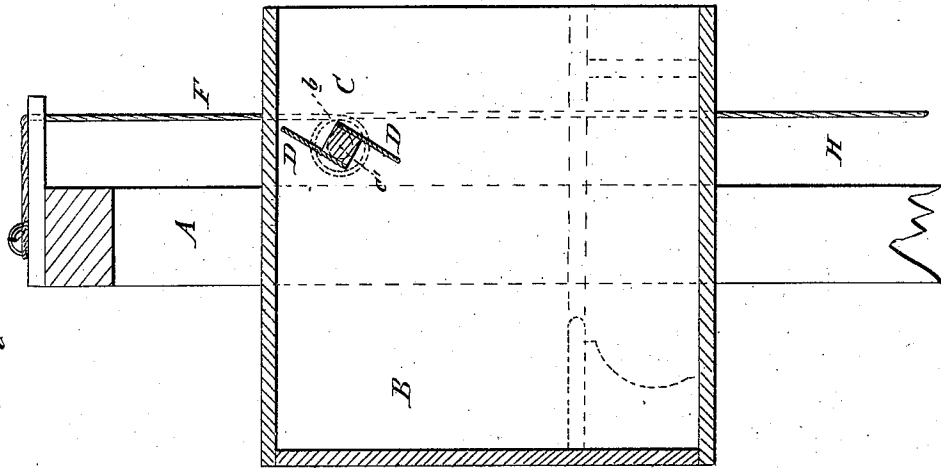
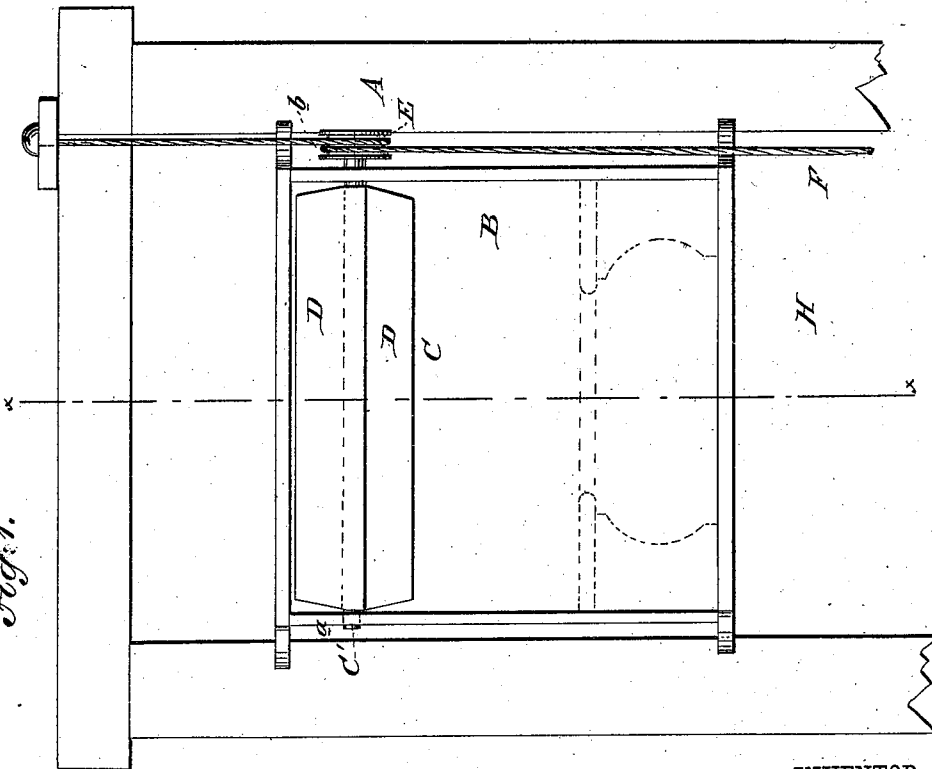


Fig. 1.



WITNESSES:

Chas. Nida
W. S. Sargent

INVENTOR:

L. Davis
BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

LUKE DAVIS, OF BOSTON, MASSACHUSETTS.

FAN ATTACHMENT FOR ELEVATORS.

SPECIFICATION forming part of Letters Patent No. 227,497, dated May 11, 1880.

Application filed March 3, 1880. (Model.)

To all whom it may concern:

Be it known that I, LUKE DAVIS, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and Improved Elevator-Fan, of which the following is a specification.

The object of this invention is to provide a simple device for ventilating passenger-elevator cars, mine-shafts, &c.

The invention consists of a fan fixed in an elevator-car, and having on one end a sheave, around which a turn is made of a rope that is stretched taut from the top to the bottom of the elevator shaft or well, so that as the car moves up or down the fan is revolved and creates a current of air to ventilate the car or shaft.

Figure 1 is a front elevation, partly in section, of a car, showing the fan in position. Fig. 2 is a sectional side elevation of the same on line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents the casing of the elevator shaft or well. B represents the elevator-car. C is the fan, consisting of a drum, C', journaled in the sides of the elevator-car B near its top, as shown at *a*, and having secured to it the longitudinal fans or blades D D. On the end of the drum C', outside of the car, is fixed a sheave, E, around which sheave E a turn is taken, as shown at *b*, of a rope, F, which rope F is stretched vertically and taut from the top to the bottom of the elevator shaft or well H, as indicated in the drawings.

It will be seen that with this arrangement the fans or blades must revolve as the elevator-car B is moved up or down.

This fan can also be attached to cars in mining-shafts and be operated in the same manner as herein set forth, for the purpose of ventilating said shafts.

It is obvious that the fans or blades will create a constant disturbance of air in the shafts, and consequently constant currents and circulation of air as the elevator or car moves up or down.

I do not confine myself to one actuating-rope and sheave, as herein shown, for two of each may be used with advantage where heavy fans are to be used; nor do I restrict myself to placing the fan within the car, as in some instances it may be placed with advantage above or below the car.

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

1. The combination, with the elevator-car B, of the fan C, provided with sheave E, and the fixed vertical rope F, substantially as herein shown and described, whereby the said fan is put in motion as the car moves up and down, as set forth.

2. As a means of revolving the fan of an elevator-car as the said car moves up or down its shaft or well, the rope F, stretched vertically from top to bottom of said shaft or well, and turned around the sheave E on the end of the fan-drum, substantially as herein shown and described.

LUKE DAVIS.

Witnesses:

F. J. TUTTLE,
C. F. PERRY.