(No Model.)

J. L. KNIGHT.

PNEUMATIC TUBE.

No. 339,105. Patented Mar. 30, 1886.

Fig. 1.

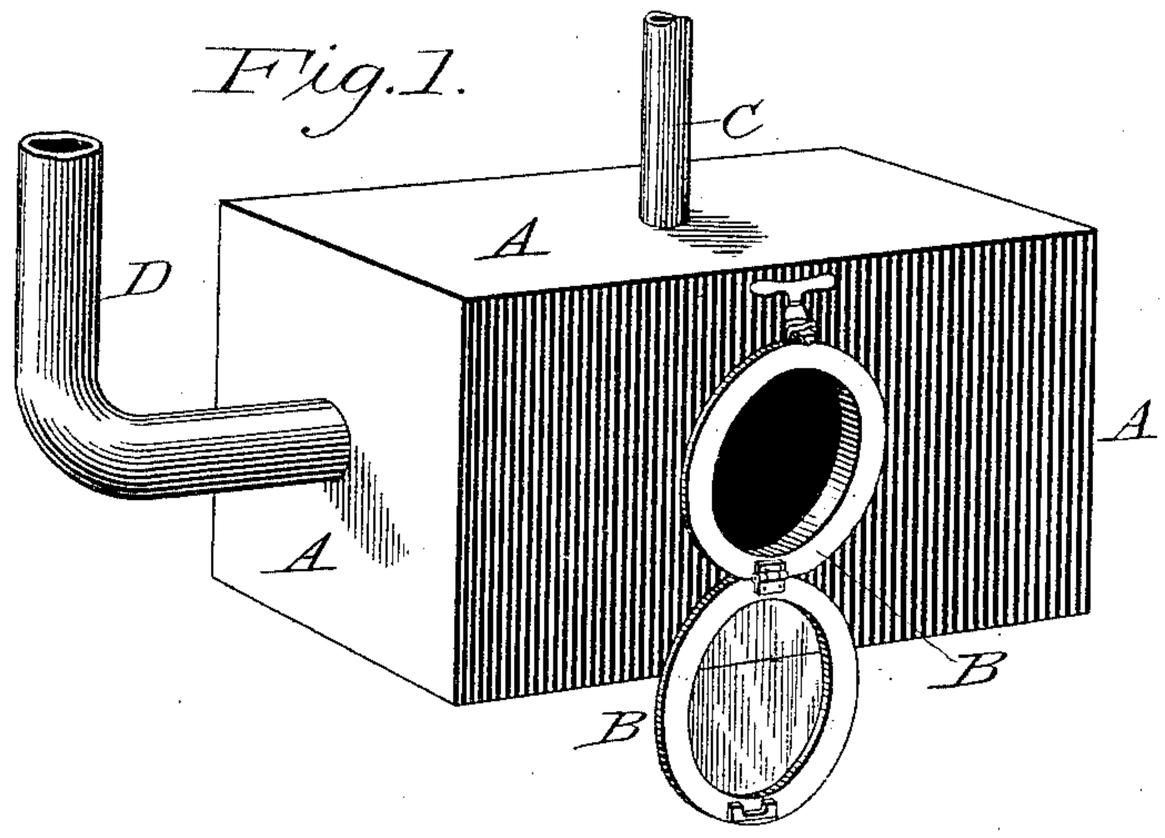


Fig. 2.

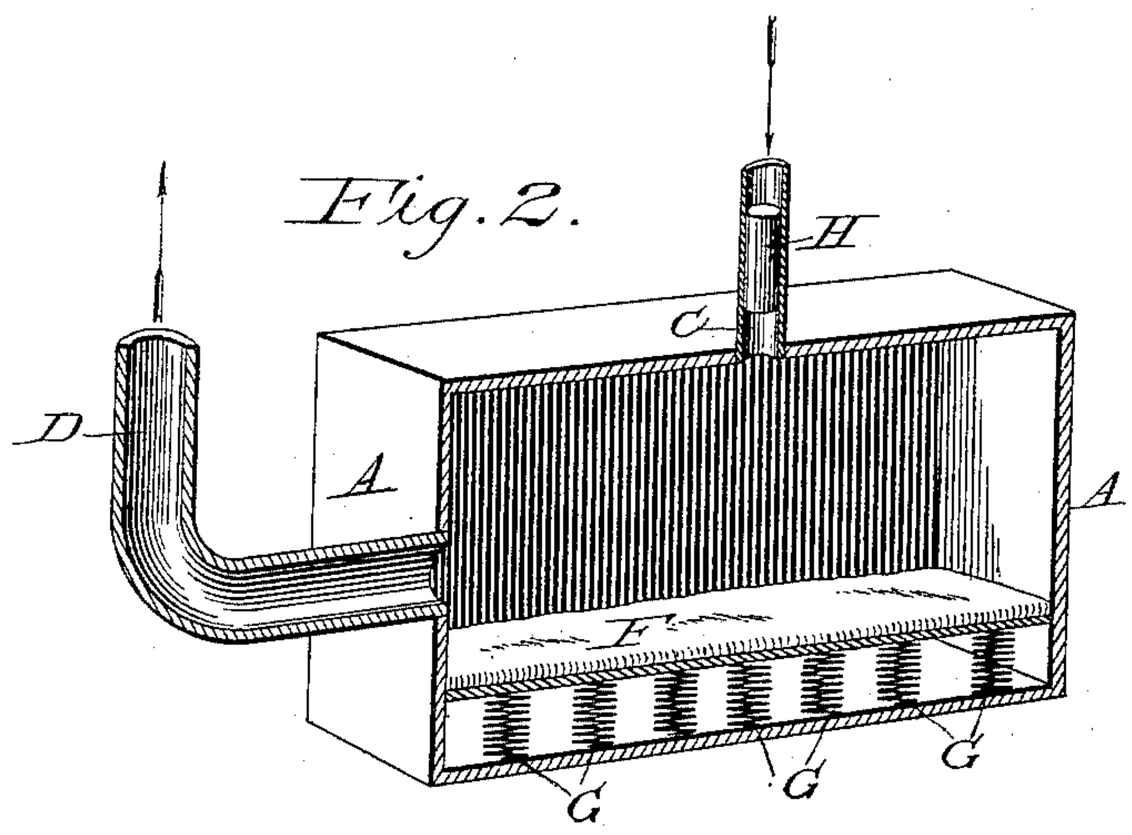
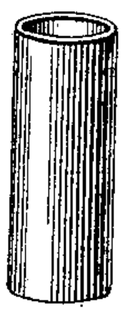


Fig. 3.



Witnesses:
Henry Arden
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UNITED STATES PATENT OFFICE.

JOHN L. KNIGHT, OF NEW YORK, N. Y., ASSIGNOR TO ALFRED NICHOLSON, OF SAME PLACE.

PNEUMATIC TUBE.

SPECIFICATION forming part of Letters Patent No. 339,105, dated March 30, 1886.

Application filed September 22, 1885. Serial No. 177,827. (No model.)

To all whom it may concern:

Be it known that I, JOHN L. KNIGHT, a citizen of the United States, residing in New York city, in the county and State of New York, have invented certain new and useful Improvements in Pneumatic Tubes, of which the following is a specification.

Pneumatic tubes for the transmission of parcels are usually buried in the ground, and the gases and odors of the earth collect in them and are transmitted into the place along with the parcel. It has been found that the noxious vapors thus ejected into buildings and rooms are injurious to health.

The parcel to be transmitted through the pneumatic tubes is usually inserted into a carrier made of felt or other suitable material, just fitting the tube, and this carrier is thrown from the tube with considerable force, thereby tending to injure or break it.

My invention consists of a receptacle, into which the end of the pneumatic tube is inserted. This receptacle has also an outlet or tube running into a chimney or other convenient place, and has also a door which can be opened and shut at pleasure. The carrier, when thrown from the tube, falls within this receptacle, and the door being shut the gases, &c., from the tube instead of being ejected into the room containing the receptacle will pass through the outlet into the chimney.

Another and subsidiary part of my invention is to provide a cushion or spring-mattress within the receptacle in such a position that the carrier will fall or strike against it, thereby preserving the carrier from injury.

The accompanying drawings represent what I consider the best means of carrying out the invention.

Figure 1 is a perspective view, and Fig. 2 is vertical section, of the receptacle. Fig. 3 is a perspective view of the carrier.

Similar letters of reference indicate similar parts in all the figures.

A is the receptacle, into which the end of the pneumatic tube C is inserted. D is the outlet or tube, also inserted into A, and carried into the chimney or other convenient place. B B is a door, also inserted into A, and which can be opened and closed at pleasure. H is the carrier, traveling in tube C. F is a cushion, placed preferably on springs G G G.

The operation is as follows: The door B is closed and the carrier H is forced by the air into the receptacle, and the force of concussion is broken by striking upon F. The gases and air ejected from C pass through G into the chimney or other desired place. The receptacle A, when the door B is closed, is substantially air-tight, the only outlet being the tube D. Of course more than one tube D can be used, if desired. I preferably insert glass in the door B, or in some part of A, so that an inspection from outside without opening the door will show if any carriers have arrived.

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

1. The combination of the pneumatic tube C with the escape-outlet D and the receptacle A, either with or without the cushion F and springs G G, substantially as described, and for the purpose specified.

2. The combination of the pneumatic tube C with the receptacle A, having one or more escape-outlets, D, substantially as described, and for the purpose specified.

3. The combination of the pneumatic tube C with the carrier H, receptacle A, cushion F, and springs G G, substantially as described, and for the purpose specified.

4. The combination of the pneumatic tube C, receptacle A, door B, and outlet D, substantially as described, and for the purpose specified.

JOHN L. KNIGHT.

Witnesses:
JACOB FLOMINE,
ALFRED NICHOLSON.