

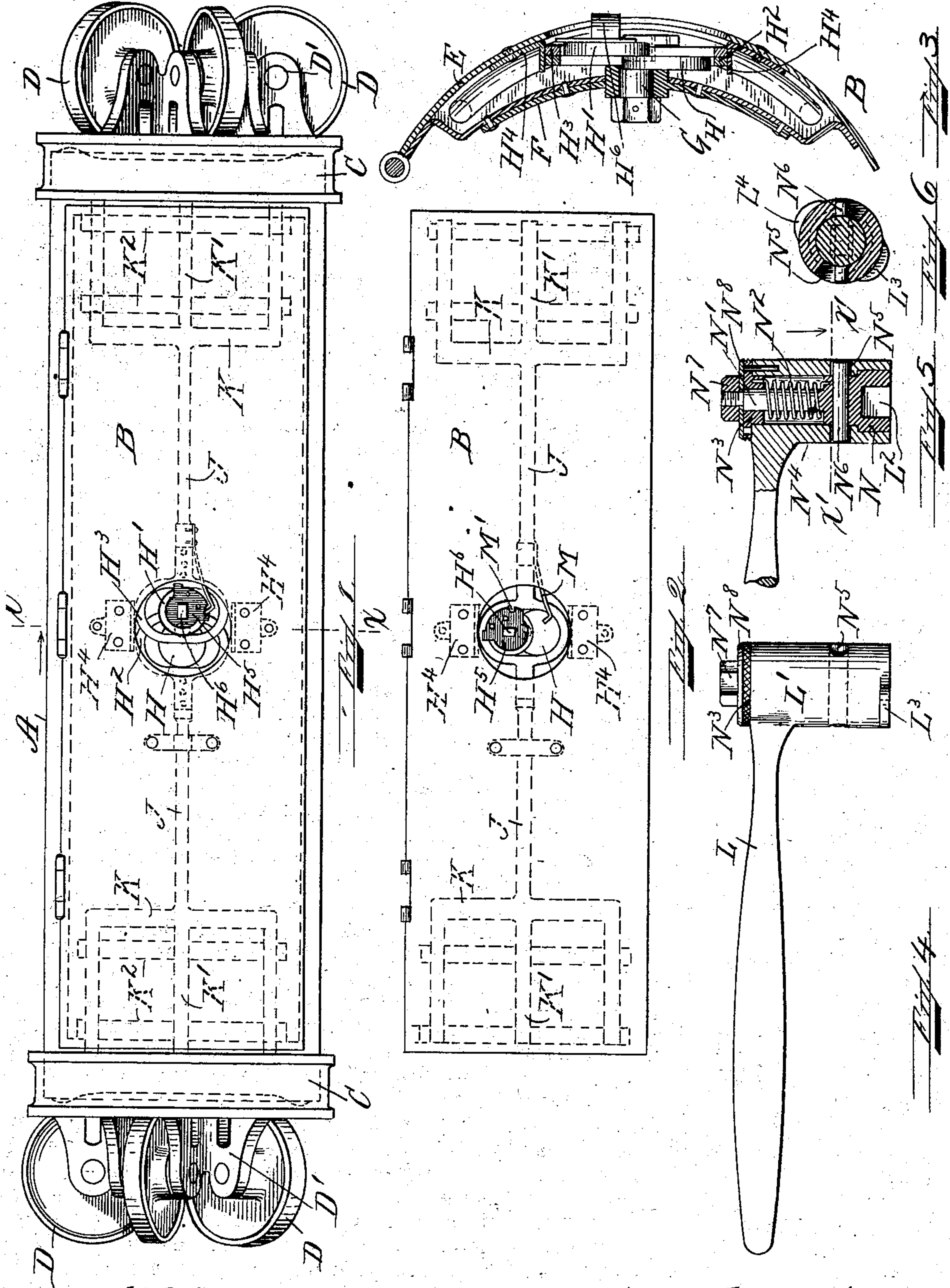
No. 726,097.

PATENTED APR. 21, 1903.

O. S. PIKE.  
PNEUMATIC CARRIER.

APPLICATION FILED JAN. 28, 1902.

NO MODEL.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

OTTO S. PIKE, OF MALDEN, MASSACHUSETTS.

## PNEUMATIC CARRIER.

SPECIFICATION forming part of Letters Patent No. 726,097, dated April 21, 1903.

Application filed January 28, 1902. Serial No. 91,597. (No model.)

*To all whom it may concern:*

Be it known that I, OTTO S. PIKE, of Malden, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Pneumatic Carriers, of which the following is a specification.

My invention relates to new and useful improvements in locks for the covers of pneumatic-despatch carriers; and the object of my invention is to produce a simple and efficient lock which may be readily operated and cannot be unlocked during the passage of the carrier through the tube.

My invention consists of certain novel features hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, which illustrate a construction embodying my invention, Figure 1 is a top plan view of the carrier, showing my improved lock on the cover and in its locked position. Fig. 2 is a view of the cover with the lock in its unlocked position. Fig. 3 is a sectional view through the cover on the line X X, Fig. 1. Fig. 4 is a side view of the wrench. Fig. 5 is sectional view through the head of the wrench and part of the handle. Fig. 6 is a cross-sectional view on the line X' X', Fig. 5.

Like letters of reference refer to like parts throughout the several views.

A represents a carrier provided with the cover B and the heads C, on which are mounted the wheels D on suitable lugs D'. The cover B consists of an outer shell E and an inner shell F, and extending up through the inner shell F is a fixed stud G, on which are mounted the eccentrics H H', around which are respectively located the eccentric-straps H<sup>2</sup> H<sup>3</sup>, prevented from sidewise movement by the bands H<sup>4</sup>, secured to the shell E. The eccentric H' is provided with a plate H<sup>5</sup>, on which is a suitable pin H<sup>6</sup>, and when it is desired to lock the cover to the shell of the carrier the wrench L, provided with a suitable head L', is placed over the pin H<sup>6</sup>, with its cavity L<sup>2</sup> fitting said pin, and said wrench being moved from the rear side toward the right will bring the parts from the position shown in Fig. 2 to that shown in Fig. 1, where the rods J carry the cross-bar K, provided with suitable bolts K', moving in the guides K<sup>2</sup>, forcing said bolts into the heads and lock-

ing the cover. When it is desired to unlock the cover, the wrench L is placed over the pin H<sup>6</sup> on the right-hand side and is moved toward the left, and in this movement the lug L<sup>3</sup> strikes the spring M, which at that time is in engagement with the slot M' in the plate H<sup>5</sup>, and thus holds the parts locked, as shown in Fig. 1, and moves it out of engagement, so that the eccentrics may be moved. This slight movement of the wrench toward the right to remove the spring M is allowed by the construction of the wrench in which the inner plug N is provided with a stud N', around which is located the spring N<sup>2</sup>, having its lower end fixed in the plug N and its upper end in the block N<sup>3</sup>, and above the block N<sup>3</sup> is a plate N<sup>4</sup>, above which is the nut N<sup>7</sup>, which engages with the stud N'. In the outer part N<sup>4</sup> there are two opposite slots N<sup>5</sup>, in which are adapted to move the ends of the pin N<sup>6</sup>, secured to the plug N, so that in the first movement of the wrench the plug N yieldingly turns by reason of the spring N<sup>2</sup> until the spring M is removed from engagement with the plate H<sup>5</sup>, when the wrench moves a sufficient distance to move the eccentrics and withdraw the bolts and unlock the cover.

I do not limit myself to the arrangement and construction shown, as the same may be varied without departing from the spirit of my invention.

Having thus described the nature of my invention and set forth a construction embodying the same, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a pneumatic carrier, a cover consisting of an inner and an outer shell for closing the carrier, locking mechanism between said shells for securing the cover in its locked position and movable lengthwise of the carrier, means for holding said locking mechanism in its locked position, and a wrench for engaging and releasing said holding means and for operating said locking mechanism lengthwise of the carrier to lock the cover to the ends of the carrier.

2. In a pneumatic carrier, a cover for closing the carrier, locking mechanism for securing the cover in its locked position, means for holding said locking mechanism in its



locked position, and a wrench having a yielding portion for operating said locking mechanism.

3. In a pneumatic carrier, a cover for closing the carrier, locking mechanism for securing the cover in its locked position, means for holding said locking mechanism in its locked position, and a wrench for operating said locking mechanism and provided with a yielding portion and with projections for operating said holding means to unlock the locking mechanism.

4. In a pneumatic carrier, a cover consisting of an inner and an outer shell for closing the carrier, locking mechanism between said shells for securing the cover in its locked position, means for holding said locking mechanism in its locked position, and a wrench for engaging and releasing said holding means and for operating said locking mechanism.

5. In a pneumatic carrier, a cover consisting of an inner and an outer shell for closing the carrier and hinged to the carrier, locking

mechanism between said shells for securing the cover in its locked position and movable lengthwise of the carrier, means for holding said locking mechanism in its locked position, and a wrench for engaging and releasing said holding means and for operating said locking mechanism lengthwise of the carrier to lock the cover to the ends of the carrier.

6. In a pneumatic carrier, a cover for closing the carrier, locking mechanism for securing the cover in its locked position, means for holding said locking mechanism in its locked position, and a wrench for engaging and releasing said holding means and for operating said locking mechanism.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 28th day of October, A. D. 1901.

OTTO S. PIKE.

Witnesses:

E. L. HARLOW,  
A. L. MESSER.