

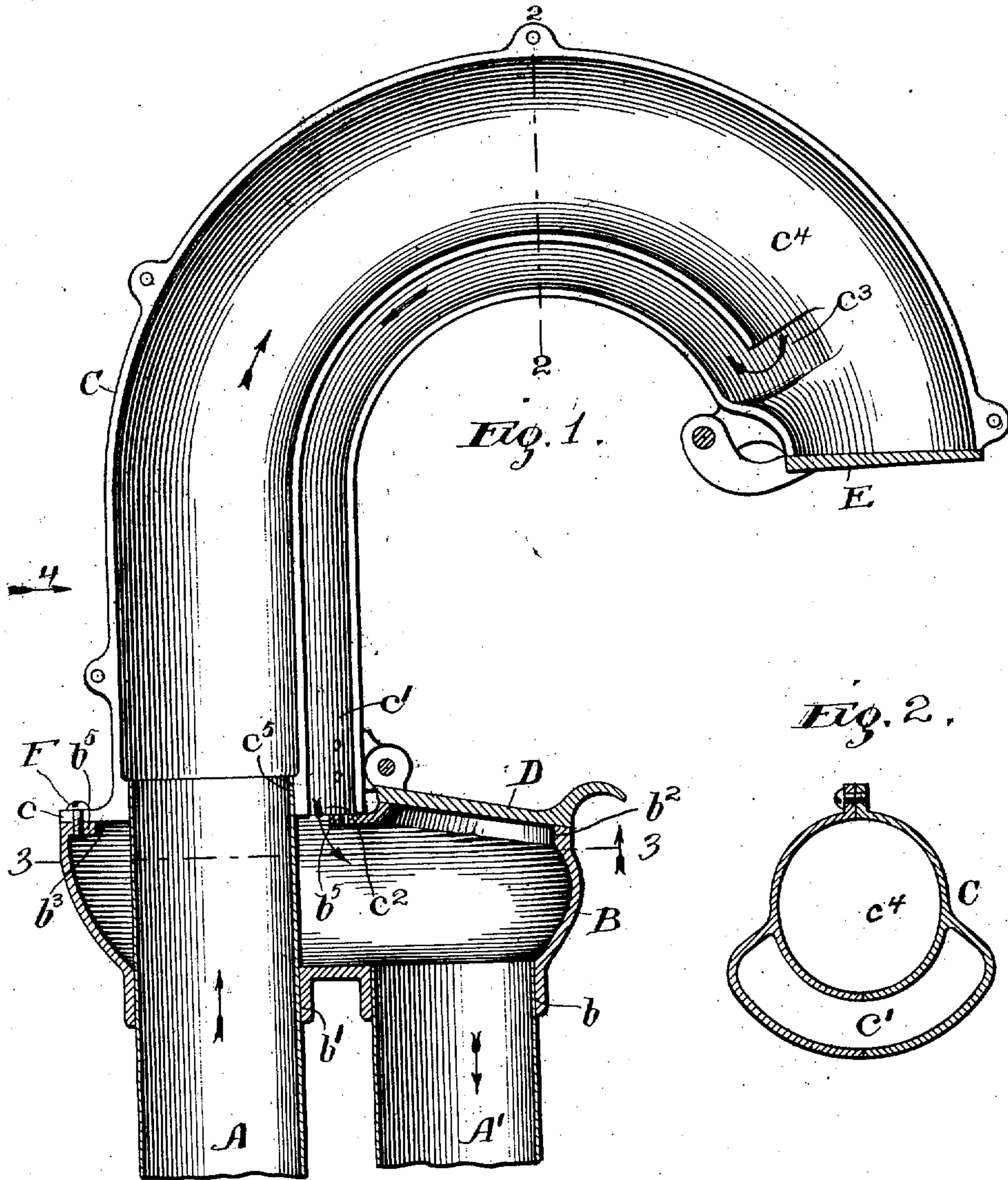
No. 682,375.

Patented Sept. 10, 1901.

A. WOLTMAN.
PNEUMATIC CARRIER.
(Application filed Feb. 11, 1901.)

2 Sheets—Sheet 1.

(No Model.)



Witnesses:
Chas. O. Shervey
S. Bliss

Inventor:
August Woltman,
by Miles & Birney,
Atty.

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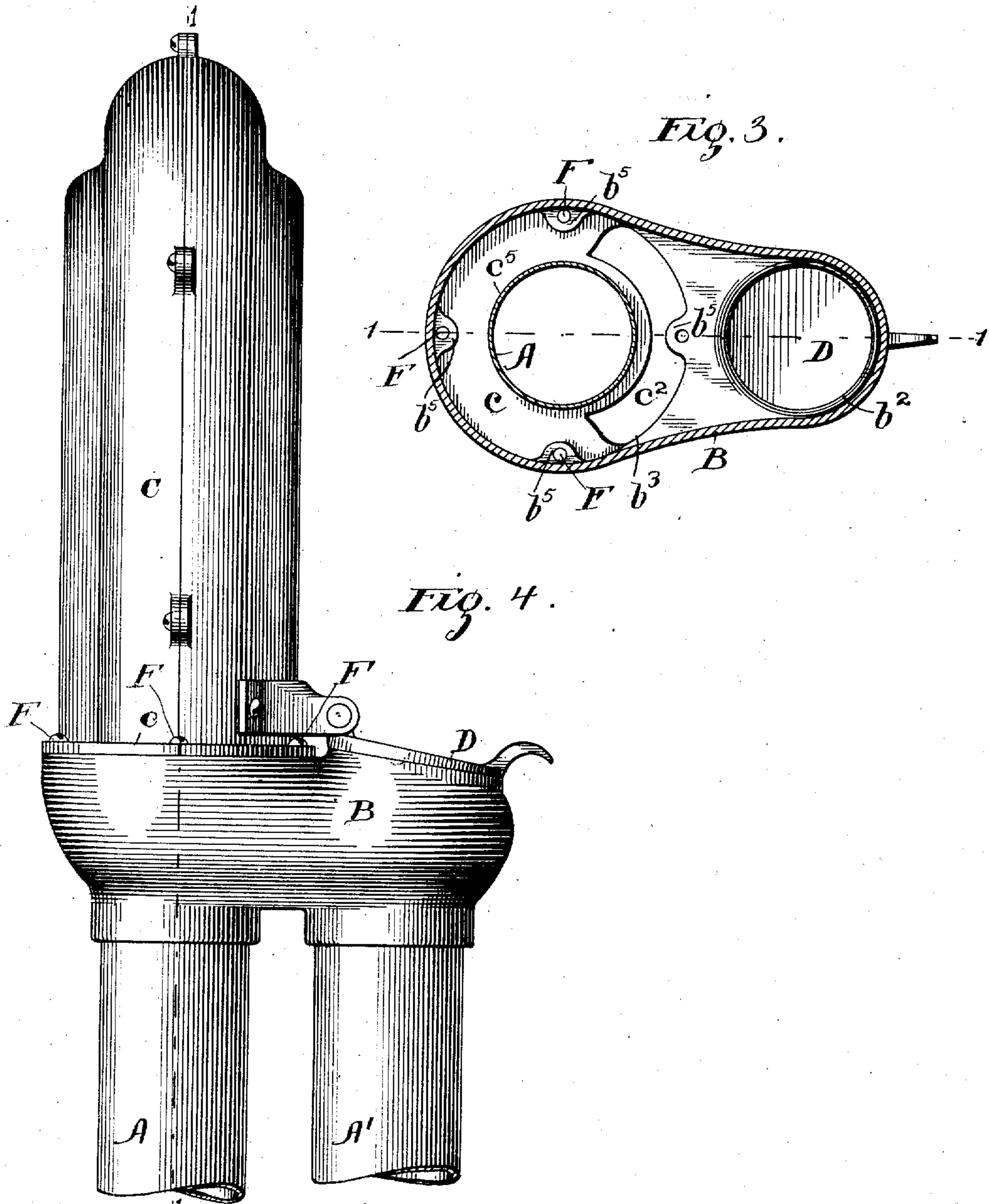
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UNITED STATES PATENT OFFICE.

AUGUST WOLTMAN, OF CHICAGO, ILLINOIS, ASSIGNOR TO NATIONAL PNEUMATIC SERVICE COMPANY, OF SAME PLACE.

PNEUMATIC CARRIER.

SPECIFICATION forming part of Letters Patent No. 682,375, dated September 10, 1901.

Application filed February 11, 1901. Serial No. 46,783. (No model.)

To all whom it may concern:

Be it known that I, AUGUST WOLTMAN, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Pneumatic Carriers, of which the following is a specification.

My invention relates to certain improvements in pneumatic carriers of the class in which the discharge and the receiving or return tubes are arranged side by side; and the invention consists in certain novel characteristics possessed by the terminal proper by reason of which the discharge branch of the terminal may be secured to the remainder in a variety of different positions to accommodate it to the various requirements which may be met in erecting the terminal.

It also consists in certain subordinate features of improvement which are particularly advantageous in this sort of terminal, but which may be of value in other and different sorts.

In the drawings showing the preferred form of the terminal, Figure 1 is a vertical section in the plane 1 1 of Fig. 4, with the exception that the return branch of the terminal is swung into the plane of the section. Fig. 2 is a vertical transverse section in line 2 2 of Fig. 1. Fig. 3 is a horizontal section looking upward in the line 3 3 of Fig. 1, and Fig. 4 is an end elevation looking in the direction of the arrow 4 of Fig. 1 and showing the return branch swung at right angles to the position shown in Fig. 1.

Referring to the drawings, A A' represent, respectively, the discharge and return tubes of a pneumatic-carrier system, the current of air passing through the same in the direction of the arrows shown in said tubes.

The terminal proper is composed of a hollow base B, surmounted by a curved branch C. The hollow base B is provided with an opening *b* to receive the return-tube A' and an adjacent opening *b'* to receive the discharge-tube A, which is usually parallel with the return-tube at this point in the system. In the top of the base B are two preferably circular openings, one, *b*², being covered by a receiving-valve D, which is opened to insert the carrier into the return-tube, and the

other, *b*³, which is also preferably circular, is covered by the bottom of the discharge branch C, one side of which is extended horizontally in the form of a flange *c*, Figs. 1 and 3, and the other side of which is partially surrounded by a return-passage *c'*, preferably forming a part of the discharge branch C. This return-passage opens at *c*² into the interior of the base B and at *c*³ into the discharge-passage *c*⁴ of the discharge branch near the end thereof. Said discharge-passage is preferably approximately circular in cross-section, and its discharge end is covered by an ordinary discharge-valve E. The opposite end of the discharge-passage *c*⁴ terminates in a circular opening *c*⁵, adapted to receive the end of the discharge-tube A. The flange *c* is provided with a series of perforations, and the base just beneath said flange has inwardly-projecting lugs *b*⁵, Fig. 3, preferably tapped to engage screws F, by means of which the discharge branch is secured to the base of the terminal. By loosening these screws the discharge branch may be adjusted angularly about the axis of the discharge-tube, so as to give the discharge-end any desired relative position to the return-tube. In this way said return-tube may be arranged upon either side of the discharge branch, back of it, or beneath it, as seen in Fig. 1. This terminal may be used, therefore, as a right or left terminal, and if neither of these ordinary positions is preferable may be given a variety of other positions, which are impossible in the use of the ordinary terminal except by special construction.

The details of the terminal are thought to be immaterial to the broader features of the invention, and for that reason said invention is not limited to the exact construction shown in the drawings.

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

1. In a terminal for pneumatic-carrier systems, the combination with a suitable base, provided with openings to receive the discharge and return tubes of the system, of a curved discharge branch angularly adjustable about the axis of the discharge-tube; substantially as described.

2. In a terminal for pneumatic-carrier sys-

tems, the combination of a hollow base adapted for attachment to the discharge and return tubes of the system, of a curved discharge branch containing a discharge-passage into which the discharge-tube opens, a return-passage connected with the discharge-passage near the discharge end thereof, and with the return-tube at the other end, and means for securing said discharge branch in place and adjusting it angularly about the axis of the discharge-tube; substantially as described.

3. In a terminal for pneumatic-carrier systems, the combination of a hollow base provided with openings to receive the discharge and return tubes and a valve affording access to said return-tube; a curved discharge branch secured to the base and angularly adjustable thereon about the axis of the discharge-tube,

said discharge branch having a discharge-passage into which the discharge-tube opens and a parallel and partially-surrounding return-passage opening at one end into the base and at the other end into the discharge-passage near the discharge end thereof and a suitable discharge-valve for closing the end of said discharge-passage; substantially as described.

In witness whereof I have hereunto set my hand, at Chicago, in the county of Cook and State of Illinois, this 23d day of January, A. D. 1901.

AUGUST WOLTMAN.

Witnesses:

CHAS. O. SHERVEY,
S. BLISS.