

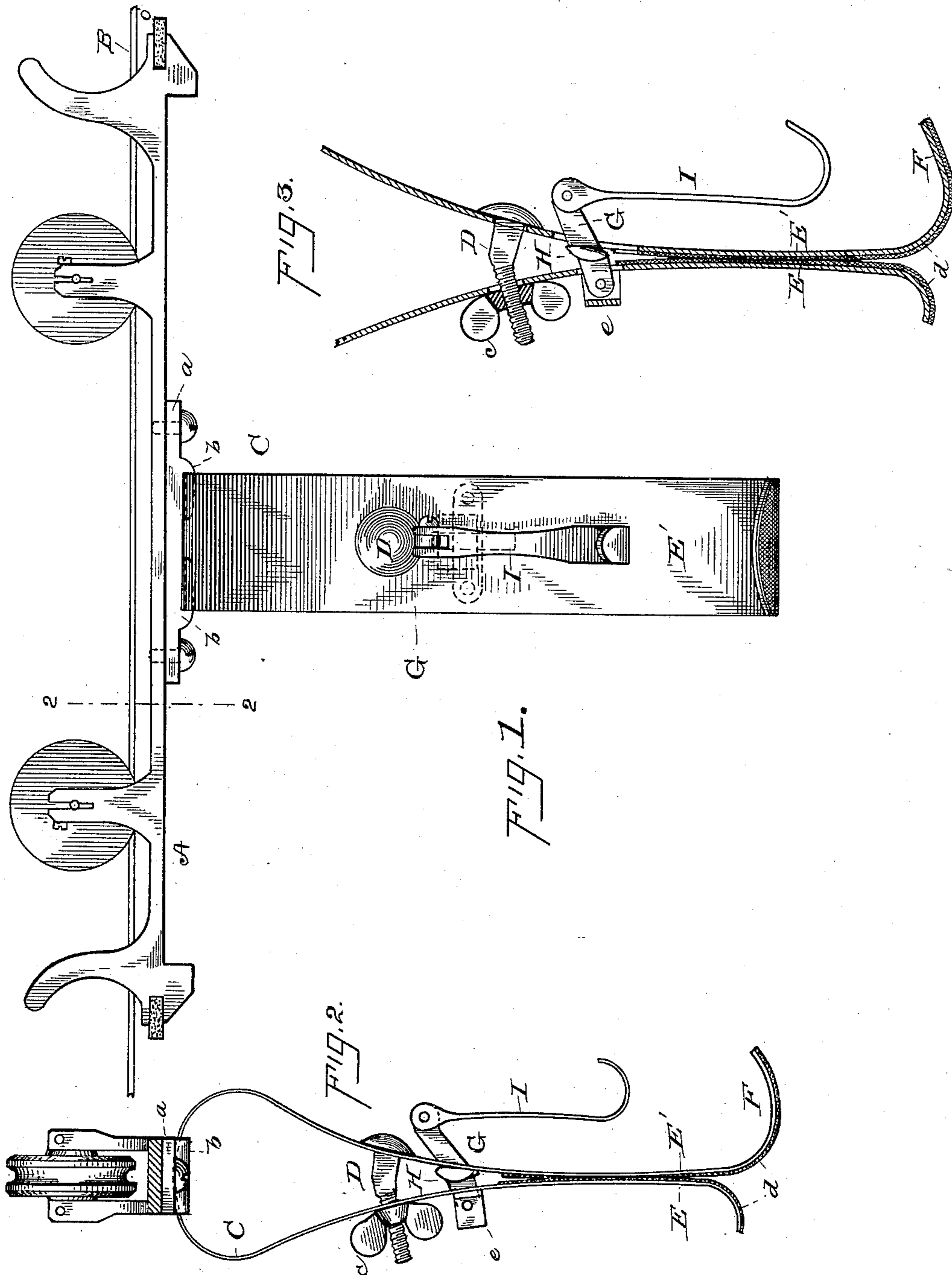
(No Model.)

M. F. ADAMS.

CARRIER FOR STORE SERVICE APPARATUS.

No. 378,537.

Patented Feb. 28, 1888.



ATTEST:
E. C. Towland
H. C. Ryan

INVENTOR:
Milton F. Adams
By Dyer & Seely
Atty.

UNITED STATES PATENT OFFICE.

MILTON F. ADAMS, OF NEW YORK, N. Y., ASSIGNOR TO THE RAPID SERVICE
STORE RAILWAY COMPANY, OF SAME PLACE.

CARRIER FOR STORE-SERVICE APPARATUS.

SPECIFICATION forming part of Letters Patent No. 378,537, dated February 28, 1888.

Application filed February 3, 1887. Serial No. 226,350. (No model.)

To all whom it may concern:

Be it known that I, MILTON F. ADAMS, of New York city, in the county and State of New York, have invented a certain new and useful
5 Improvement in Carriers for Store-Service Apparatus, of which the following is a specification.

The object I have in view is to provide the traveling carriers with a suitable spring-clip
10 for holding papers, so that the apparatus will be adapted for telegraph, banking, insurance, or other commercial offices where it is desired to send papers from one point to another.

My object is to produce a device of simplicity and durability, and one which can be readily
15 opened to receive the papers without exerting an injurious strain upon the wireway upon which the carrier travels. The device is also designed to be adjusted so that the force with
20 which the jaws of the clip will be pressed together can be varied to suit the conditions of use, and the holding-jaws are faced with rubber cloth or other suitable material, to enable the papers to be pulled from the clip without
25 opening it and without tearing such papers, and so that the clip will hold the papers more securely.

In the accompanying drawings, forming a part hereof, Figure 1 is a side view of a carrier embodying my invention; Fig. 2, a transverse section of the same on line 2 2; and Fig. 3, a vertical section, on a larger scale, of the lower part of the clip.

A is the traveling carrier of a store-service
35 apparatus. This carrier may be of any usual or suitable construction. It is shown as a wheeled carrier traveling on a stretched wire, B, which is the way of the apparatus.

My spring-clip is preferably a single piece
40 of flat spring metal, which is attached at or near its center to the underside of the body of the carrier. For this purpose a plate, *a*, is secured to such body, and has ears *b*, which are bent inwardly over the spring and hammered down upon such spring, firmly attaching it to the carrier.

The spring on opposite sides of the point of attachment is bent downwardly, forming a spring-bow, C, and below this bow the sides
50 of the spring are connected by a bolt, D, hav-

ing a screw-threaded end, upon which is a thumb-nut, *c*, by the adjustment of which the distance apart of the sides of the spring at this point can be varied as desired, changing the pressure exerted by the jaws of the clip to that
55 required by the conditions of use. At a short distance below the bolt D the sides of the spring are brought into contact and form the jaws E E' of the clip, for holding the papers which are carried by the clip. The adjacent
60 sides of these jaws are covered with a facing, *d*, of rubber cloth or other suitable material, preferably but not necessarily a fabric of some kind, so that the jaws will hold the papers with a less amount of pressure, and the papers can
65 be pulled from the jaws without tearing. At the lower ends of the jaws E E' the ends of the clip are bent outwardly, as shown, to form a sort of guide for assisting in introducing papers into the clip. The lateral extension F
70 of the jaw E', however, is large enough to perform the additional function of receiving the upward thrust of the thumb in opening the jaws by means of the spreader, which will be now explained. Just below the bolt D is a
75 lever, G, which passes through slots in both jaws E E'. It is pivoted at one end in a yoke, *e*, secured by rivets to the outer side of the jaw E. Between the jaws the lever G is provided with the spreading-plate H, which, as shown
80 in dotted lines in Fig. 1, is wider than the slots in the jaws through which the lever passes. The free end of the lever G, outside of the jaw E, carries a pivoted operating-link, I, which hangs downwardly in a vertical position, and
85 has its lower end turned into a hook, which is grasped by the forefinger of the operator.

To open the jaws of the clip, the operator grasps the hooked end of the link I by his forefinger, while his thumb presses upwardly
90 against the extension F of the jaw E'. He draws downwardly on the link I with the forefinger against the upward thrust of the thumb, and the free end of the lever G is drawn downwardly, causing the spreading-plate to have a
95 rotary motion between the jaws E E' like a wiper and to open such jaws. The papers are then passed into the jaws by the other hand and the link I released, when the jaws will spring together on the papers. The pivoted
100

link I always drops into proper place and conforms itself to the natural position of the hand of the operator. In removing the papers from the jaws, they may be simply pulled out, or
5 the jaws may be spread, as before explained.

What I claim is—

1. In store-service apparatus, the combination, with a carrier, of a spring-clip, a spreader for opening the jaws of the clip, and adjustable means holding such jaws normally closed,
10 substantially as set forth.

2. In store-service apparatus, the combination, with a carrier, of a normally-closed spring-clip, a lever pivoted to one jaw of said clip and
15 passing through the other jaw, and a spreading plate or wiper carried by said lever between said jaws, substantially as set forth.

3. In store-service apparatus, the combination, with a carrier, of a normally-closed spring-clip, a spreader for opening the jaws of such
20 clip, adapted to be drawn downwardly by the forefinger of the operator, and an extension

on said clip for receiving the upward thrust of the thumb of the operator, substantially as set forth. 25

4. In store-service apparatus, the combination, with a carrier, of a spring-clip, the holding bolt and nut, the spreading-lever carrying the spreading-plate, the pivoted operating-link, and the extension thumb-piece, substantially as set forth. 30

5. The combination of the two jaws E of a spring-clip, a bolt carried by one jaw and having a nut bearing upon the other, a lever, G, pivoted to one jaw and having a wiper for
35 spreading the jaws apart, and an operating-link, I, substantially as described.

This specification signed and witnessed this 1st day of February, 1887.

MILTON F. ADAMS.

Witnesses:

WM. PELZER,

E. C. ROWLAND.