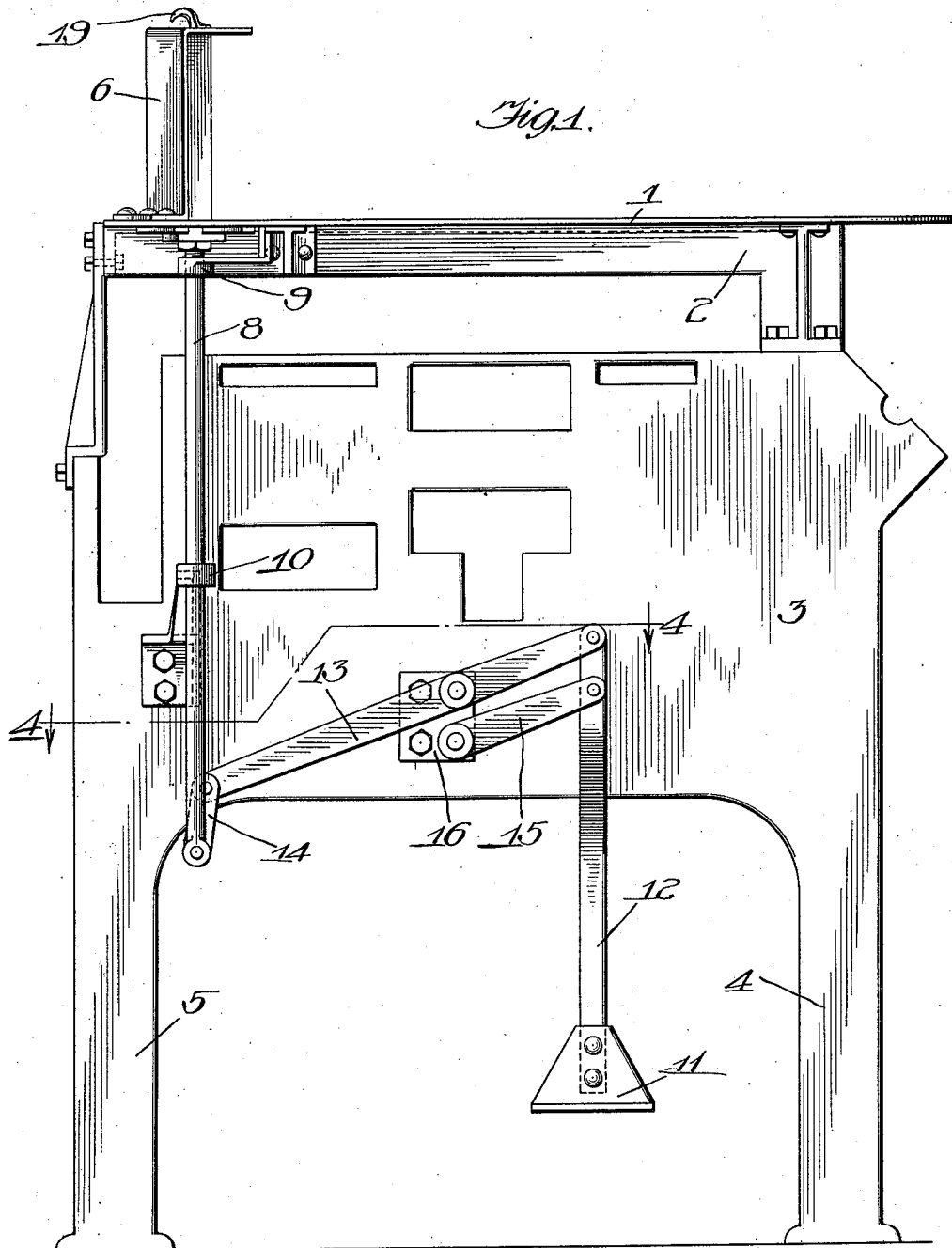


S. C. COX.
PAPER TYING MACHINE.
APPLICATION FILED MAR. 4, 1907.

1,000,995.

Patented Aug. 22, 1911.

2 SHEETS—SHEET 1.



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att'y

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2 SHEETS-SHEET 2.

Fig. 2.

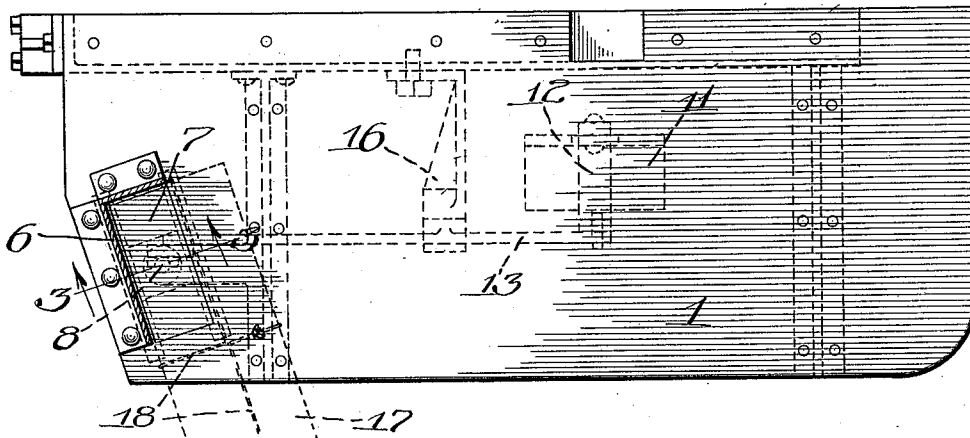


Fig. 3.

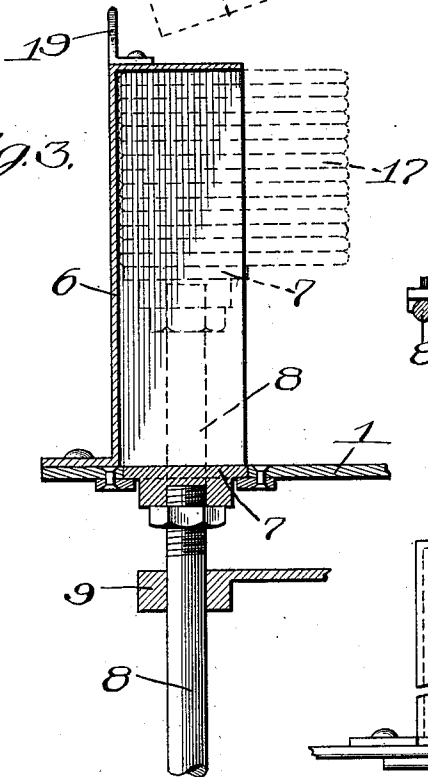


Fig. 4.

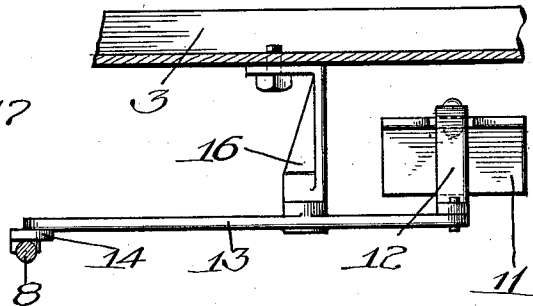
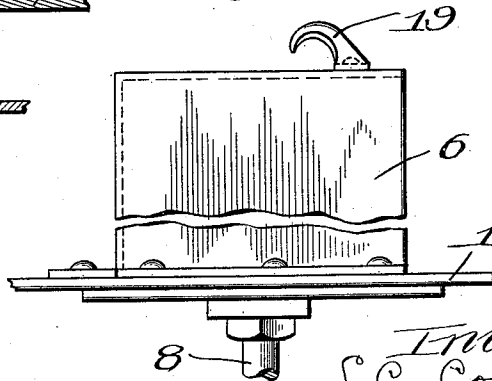


Fig. 5.



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UNITED STATES PATENT OFFICE.

SANDFORD C. COX, OF EDISON PARK, ILLINOIS, ASSIGNOR TO COX MULTI-MAILER COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF MAINE.

PAPER-TYING MACHINE.

1,000,995.

Specification of Letters Patent. Patented Aug. 22, 1911.

Application filed March 4, 1907. Serial No. 360,385.

To all whom it may concern:

Be it known that I, SANDFORD C. COX, a citizen of the United States, residing at Edison Park, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Paper-Tying Machines, of which the following is a full, clear, and exact specification.

This invention relates to improvements in machines for compressing and holding papers, and the like, to be tied in bundles or packages, and has for its object to provide a simple and efficient means by which the operator may seize and hold firmly a quantity of papers to be tied, and have at the same time both of his hands free to wrap and tie the band or cord around the package.

To the attainment of these ends and the accomplishment of other new and useful objects, as will appear, the invention consists in the features of novelty in the construction, combination and arrangement of the several parts, hereinafter more fully described and claimed, and shown in the accompanying drawings, illustrating an exemplification of this invention, and in which—

Figure 1 is a front elevation of my device. Fig. 2 is a plan view showing a horizontal section of the compressing and holding chamber. Fig. 3 is a vertical section through the compressing and holding chamber and the plunger on line 3—3 of Fig. 2. Fig. 4 is a sectional view on line 4—4 of Fig. 1. Fig. 5 is a view in elevation of the holding and compressing chamber.

The receiving table 1 is mounted on supporting members, as 2, 3, which are provided with suitable supporting legs 4, 5, to bring the table to a convenient height for the operator. Near the front side, and near one end of the table, preferably the left end, the receiving and compressing chamber 6 is mounted, being bolted or otherwise firmly attached. This chamber is provided with back and outer side vertical members and a top member, and is open at the front, the inner side, and the bottom. A rectangular section is cut from the table immediately under the chamber 6, the dimensions of the cut-away portion corresponding approximately with the inside dimensions of the

chamber. Plunger 7 fits into this cut-away section and rests normally flush with the face or top of the table. This plunger is carried by the member 8, by which it is adapted to be thrust upwardly into the angle formed by the walls of the chamber 6. This upward movement is limited by the top member of the chamber, with which the plunger coöperates in compressing and holding out of the plane of the table objects inserted therebetween. The member 8 is supported to slide vertically by the members 9, 10, carried on main frame supporting the table, and is actuated by means of the foot-treadle 11, through the depending member 12, the lever 13, and the connecting link 14. The link 15, pivoted to the supporting bracket 16 mounted on member 3, and to the depending member 12, serves to give position to member 12, and to cause it to move in vertical parallel planes. Lever 13 is pivoted on bracket 16.

The papers to be bunched or tied may be delivered onto the table and folded thereon or they may be folded before reaching the table. The required number to be tied in a single bunch is placed in the receiving chamber on the top of the plunger. The walls of the chamber serve as a guide in arranging the papers in a vertical pile. The length and width of the chamber is preferably a little less than one-half the length and width of papers as ordinarily folded for mailing. This allows the operator to tie the cord around the middle of the package both longitudinally and laterally, as shown in Figs. 2 and 3, in which the outlines of the package are shown in dotted lines 17, and the cord by 18. When a given number of papers, generally consisting of those going to a given post office, is in position in the receiving chamber, the operator, by means of his foot, depresses the foot-treadle and forces the plunger upwardly, guiding the papers, if necessary, with his hands, until they are seized and firmly held between the plunger and the chamber and above the plane of the table. In this manner the papers may be firmly held as long as the operator desires, while both his hands are free to adjust the cord around the package, in any desired manner. When the package is tied, the operator releases the pressure on the

plunger, which returns, by reason of gravity, to its normal position approximately flush with the table.

5 A stationary knife for cutting the cord may be mounted in a convenient position on the compressing chamber, as indicated by 19 in the drawings.

10 In order that the invention might be fully understood, the details of an embodiment thereof have been thus specifically described, but

What I claim is:

1. In a device of the character described, 15 the combination of a table, a chamber mounted thereon, a plunger adapted to move vertically in said chamber, a reciprocating shaft carrying said plunger, a pivoted lever, a link connecting said lever to said reciprocating shaft, a depending 20 pedal member connected to said lever and adapted to be actuated by downward pres-

sure of the foot of the operator, and means to determine the movement of said pedal member in parallel vertical planes.

2. In a device of the character described, 25 the combination with a table, of a chamber mounted thereon, a plunger adapted to move in said chamber, a movably mounted shaft carrying said plunger, a lever pivoted on said table and operatively connected 30 with said shaft, a pedal operatively connected with said lever, and a pivoted link for controlling the movement of said pedal in vertical planes.

In testimony whereof I have signed my 35 name to this specification, in the presence of two subscribing witnesses, on this 28th day of February A. D. 1907.

SANDFORD C. COX.

Witnesses:

FRANCIS A. HOPKINS,
CHAS. H. SEEM.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."