

(No Model.)

W. SCOTT.

MEANS FOR DELIVERING AND PACKING FOLDED SHEETS.

No. 575,555.

Patented Jan. 19, 1897.

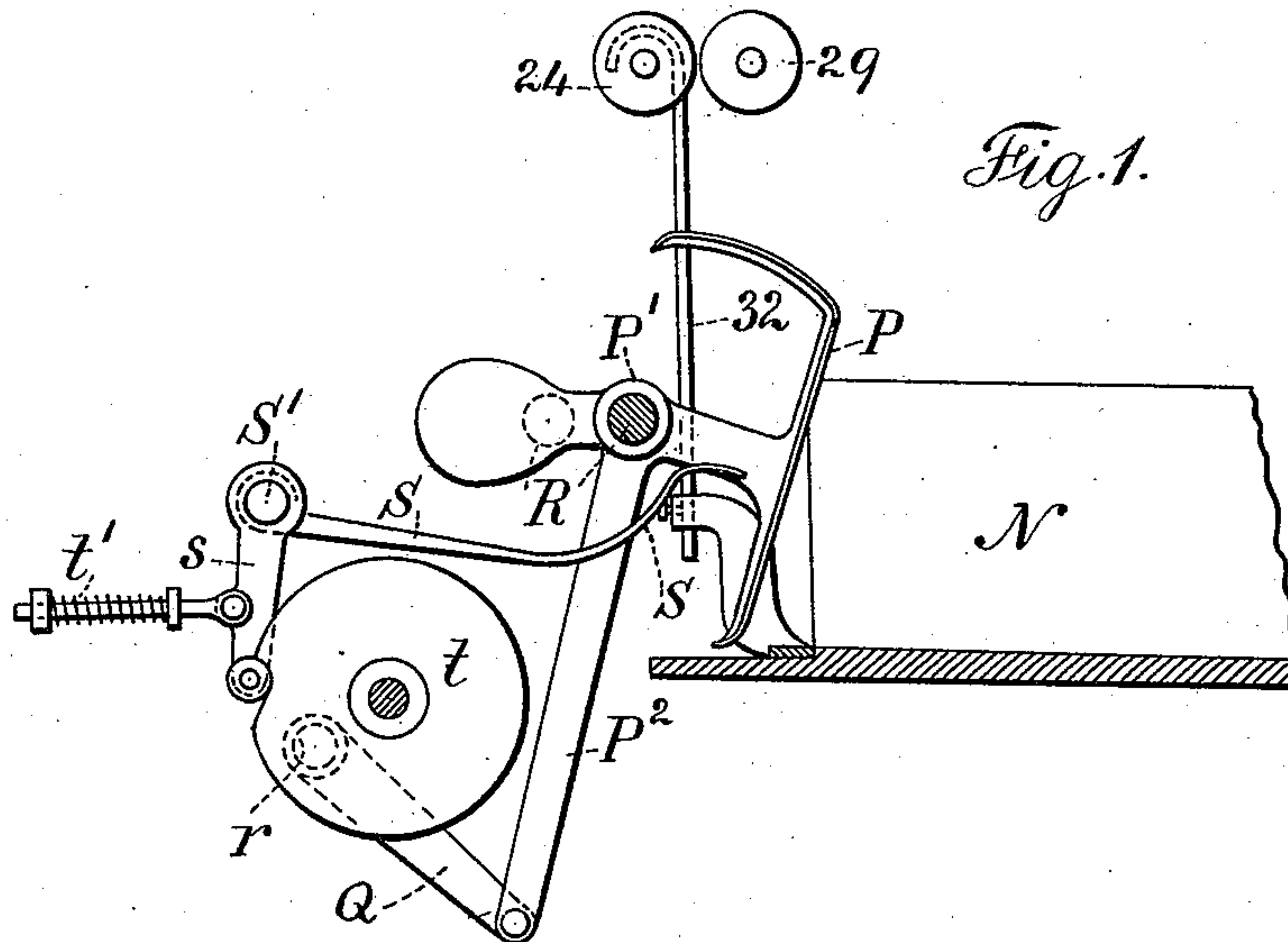


Fig. 1.

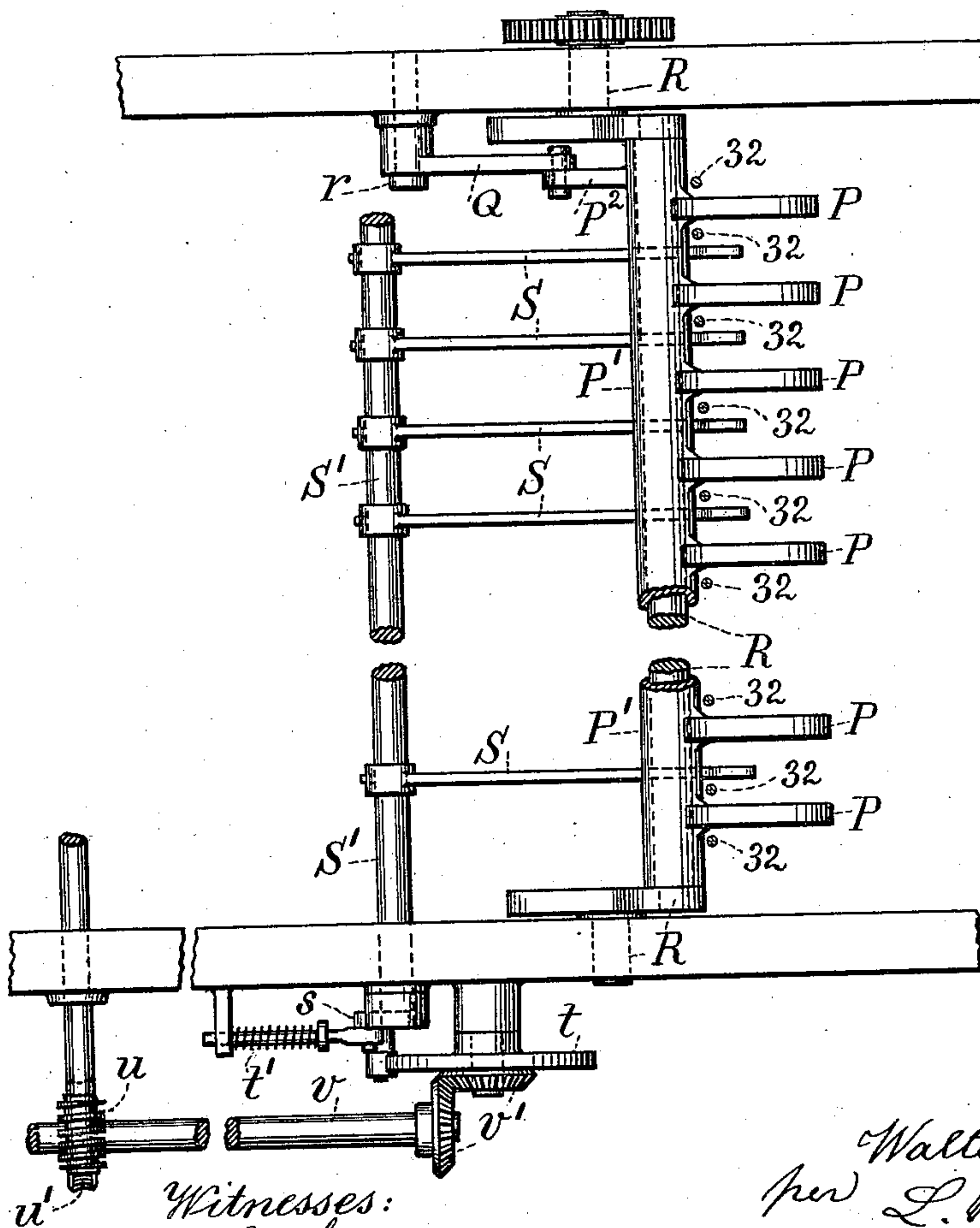


Fig. 2.

Witnesses:
J. Staib
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UNITED STATES PATENT OFFICE.

WALTER SCOTT, OF PLAINFIELD, NEW JERSEY.

MEANS FOR DELIVERING AND PACKING FOLDED SHEETS.

SPECIFICATION forming part of Letters Patent No. 575,555, dated January 19, 1897.

Original application filed May 12, 1893, Serial No. 474,018. Divided and this application filed January 28, 1896. Serial No. 577,116. (No model.)

To all whom it may concern:

Be it known that I, WALTER SCOTT, a citizen of the United States, residing at Plainfield, in the county of Union and State of New Jersey, have invented an Improvement in Means for Delivering and Packing Folded Sheets, of which the following is a specification.

This application is a division of the application filed by me May 12, 1893, Serial No. 474,018.

In the present invention I make use of a stacker or packer approximating in shape the letter J, and the same has a movable fulcrum at one end, and it receives a movement from a crank that acts to give a lateral and an endwise motion in pressing the sheets into the receptacle.

In the drawings, Figure 1 is a diagrammatic side view of the parts without any framework, and Fig. 2 is a partial plan.

Where this device is applied to a printing-press, the paper is printed and folded in any desired manner. I have represented the rolls 24 and 29 as delivering the signatures or products downwardly.

The packer P is made in the form of a series of plates or blades curved backwardly at their upper ends and fastened to the tubular cross-bar P', and these packer-blades pass in between the vertical rods or bars 32, and there is an arm P², extending down from the tubular cross-bar and pivoted at its lower end to the link Q, that swings upon a pivot r or a cross-shaft upon a frame, and this tubular cross-bar of the packer receives the long crank of the rotary shaft R, so that as this shaft R is rotated by competent power, such as by the gearing illustrated in Fig. 2, the packer is raised and lowered as it is drawn back and pressed forward, and when it is drawn back the folded product drops in front of the same and is pressed forward and downward by the action of the packer as it is carried unto the receptacle N. It is advantageous to make use of a disk heavier at one side than at the other side and upon the crank-shaft R to form a balance to the packer in order that the movement may be with but little vibration or jar.

In the delivering of folded products, especially newspapers, it is advantageous to count the same and to indicate, say, every fifty or one hundred folded products that pass into the receptacle N. This I effect automatically by the fingers S, that pass between the packers and the vertical bars 32 and project sufficiently for the folded back edge of the product to rest upon such fingers. These fingers remain stationary except when placed in such a manner as to cause the indicating product to stand up above the other products in the receptacle. These fingers S are upon a cross-shaft S', upon one end of which is an arm s with a roller or pin at its end that is pressed toward a cam t by a spring t', and this cam t is circular except at one place, where there is a notch in its periphery, and this cam t is rotated at a sufficiently slow speed for the notch in its periphery, in connection with the arm s and spring t', to cause the ends of the fingers S to be raised as often as an indicating-sheet is to be elevated in the product-receptacle. With this object in view a screw-pinion u is provided on the hub of one of the gears to drive the pinion u' on the shaft v, and there are bevel-gears v' to rotate the cam t at the proper speed, say once for every fifty sheets delivered into the product-receptacle N.

In consequence of the stackers or packers being J-shaped and having a swinging link at one end and being moved by the crank-pin, that describes a circle, the packers are raised and lowered as well as pressed bodily and laterally against the delivered products.

I claim as my invention—

1. The combination with a product-receptacle, of a packer formed of a series of plates, a tubular cross-bar to which the packer-plates are connected, a crank passing through the tubular cross-bar and giving motion to the same, means for guiding the packer in its movements, fingers between the packer-plates and upon which the folded product is delivered, and means for raising the fingers periodically to elevate one of the folded products each time the desired number of products passes into the receptacle, substantially as set forth.

2. The combination with the product-receptacle, of vertical guides at the end of the product-receptacle, packers between the guide-bars, and a crank for actuating such packers,
5 fingers between the guide-bars and the packers, a cross-shaft for carrying the fingers and mechanism acting periodically for elevating the fingers and supporting one product in

every given number of products while being pressed forward into the product-receptacle, 10 substantially as set forth.

Signed by me this 27th day of January, 1896.

WALTER SCOTT.

Witnesses:

GEO. T. PINCKNEY,

S. T. HAVILAND.