

(No Model.)

W. E. ROCKWOOD.

PAPER WHEEL.

No. 300,014.

Patented June 10, 1884.

Fig. 1.

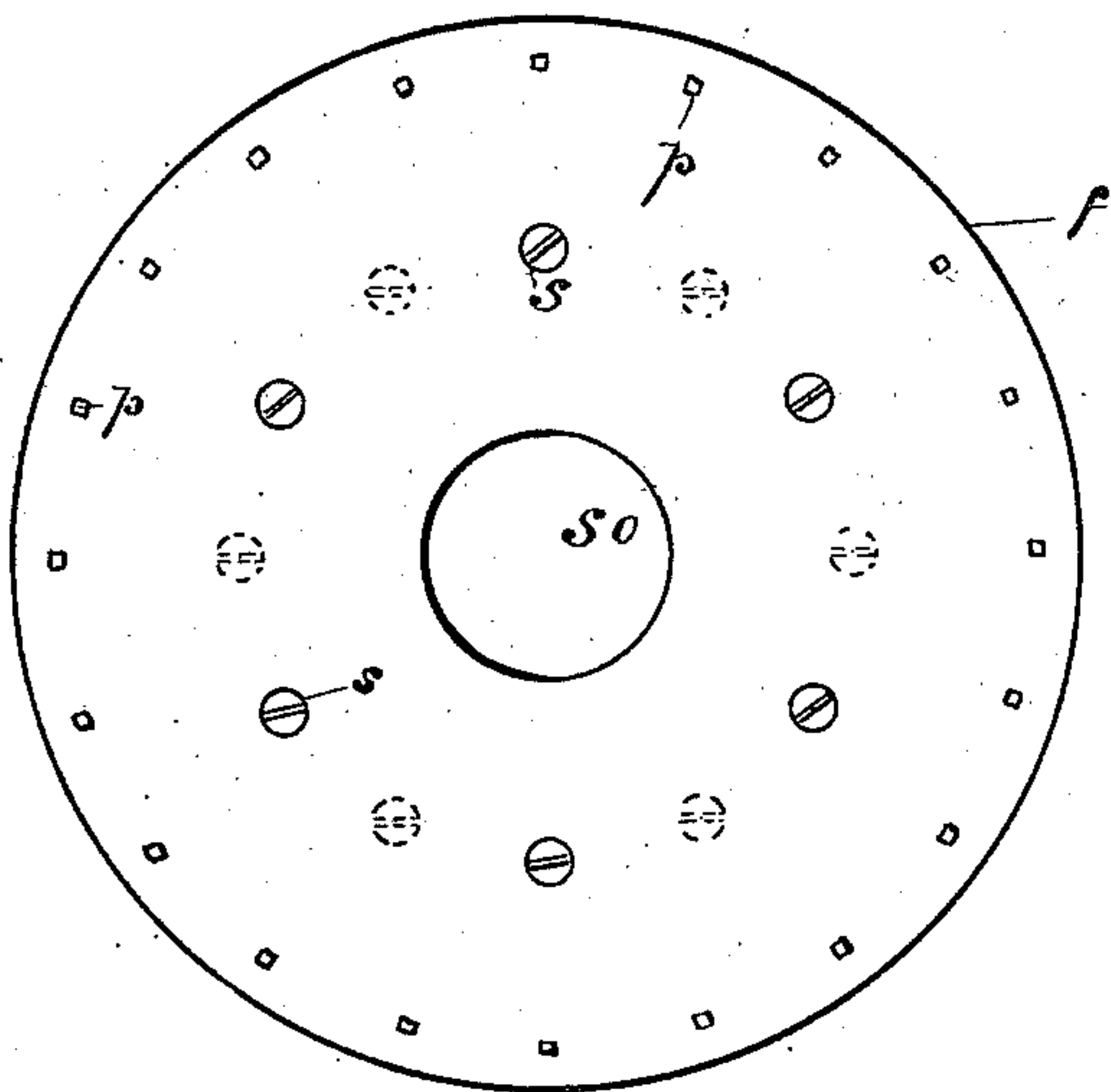


Fig. 2.

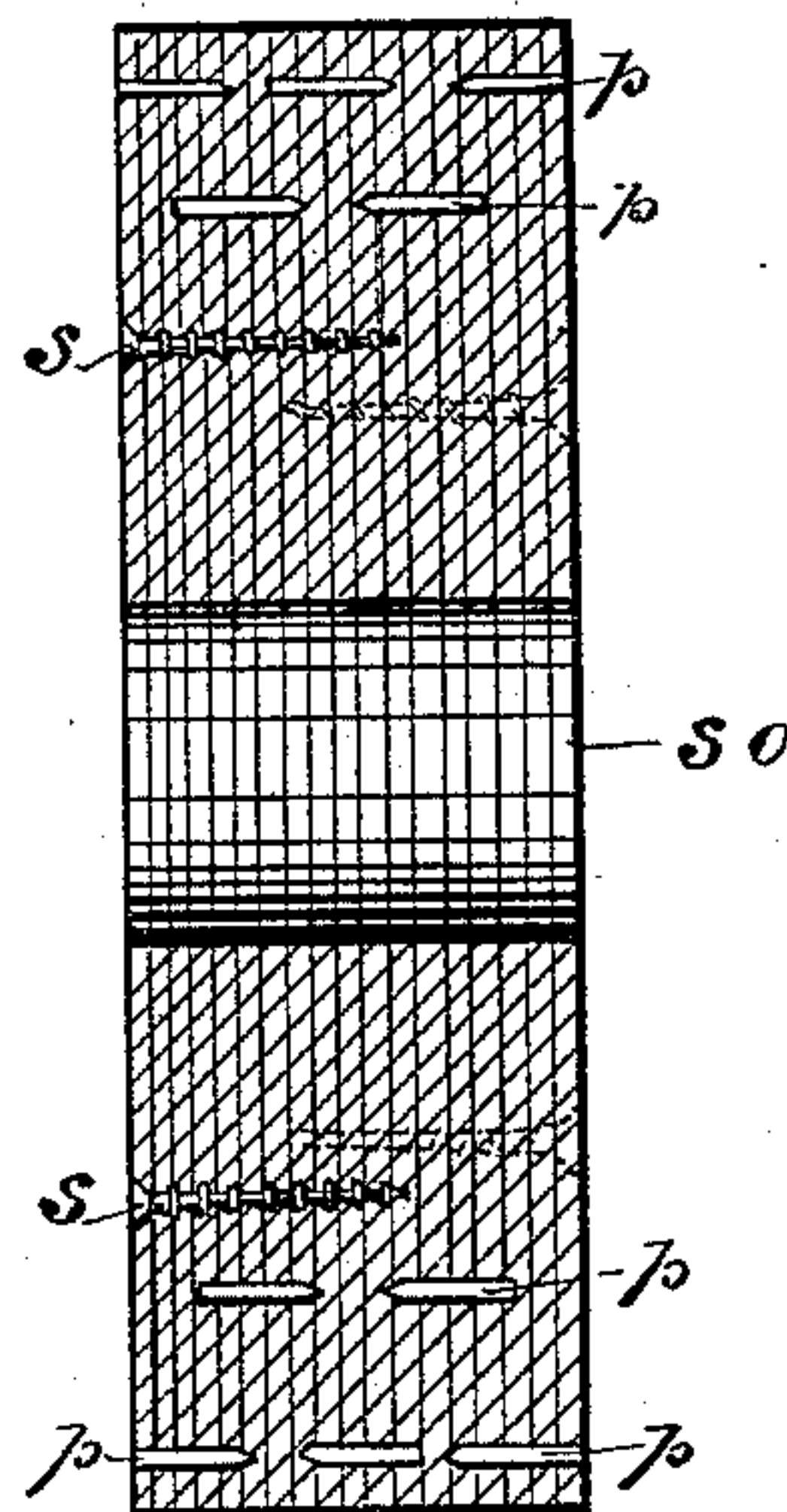


Fig. 3.

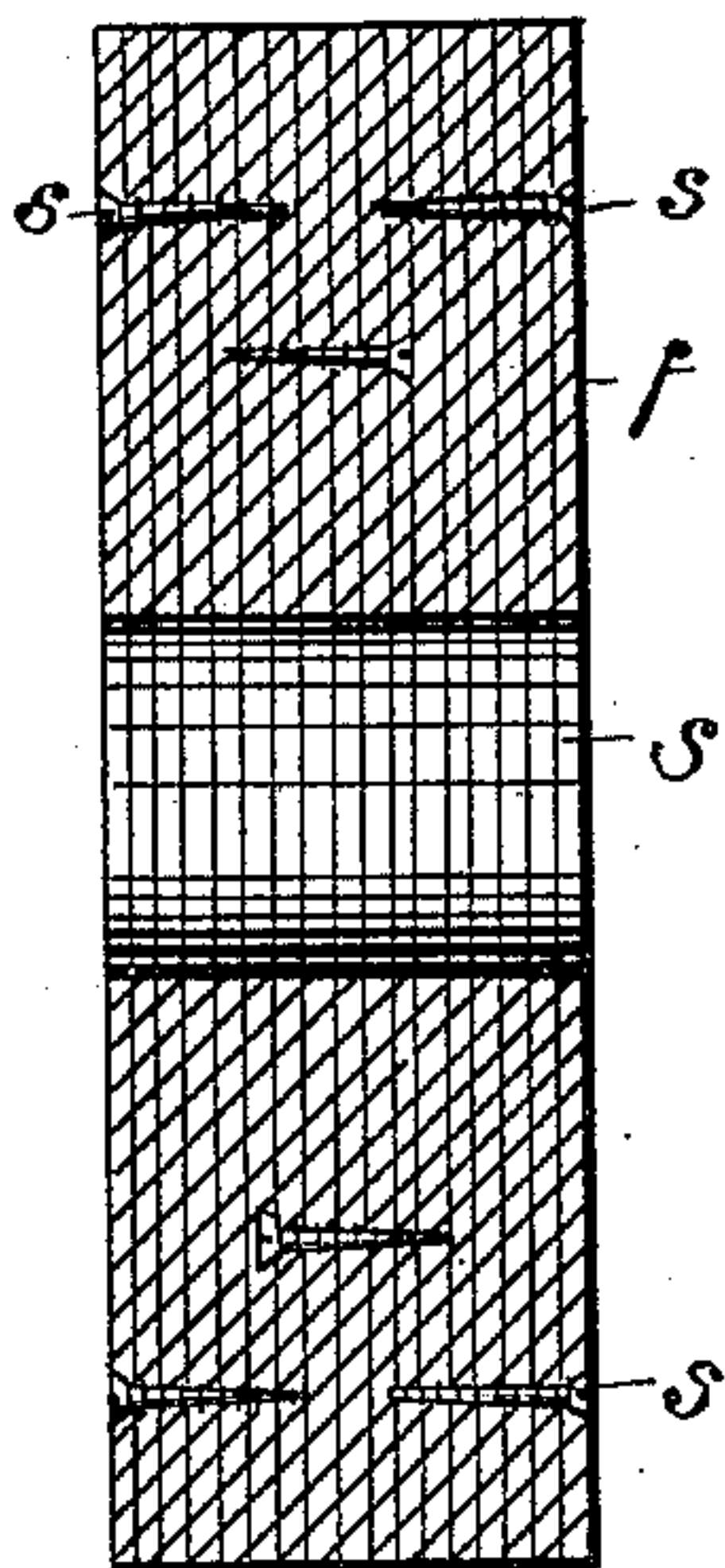
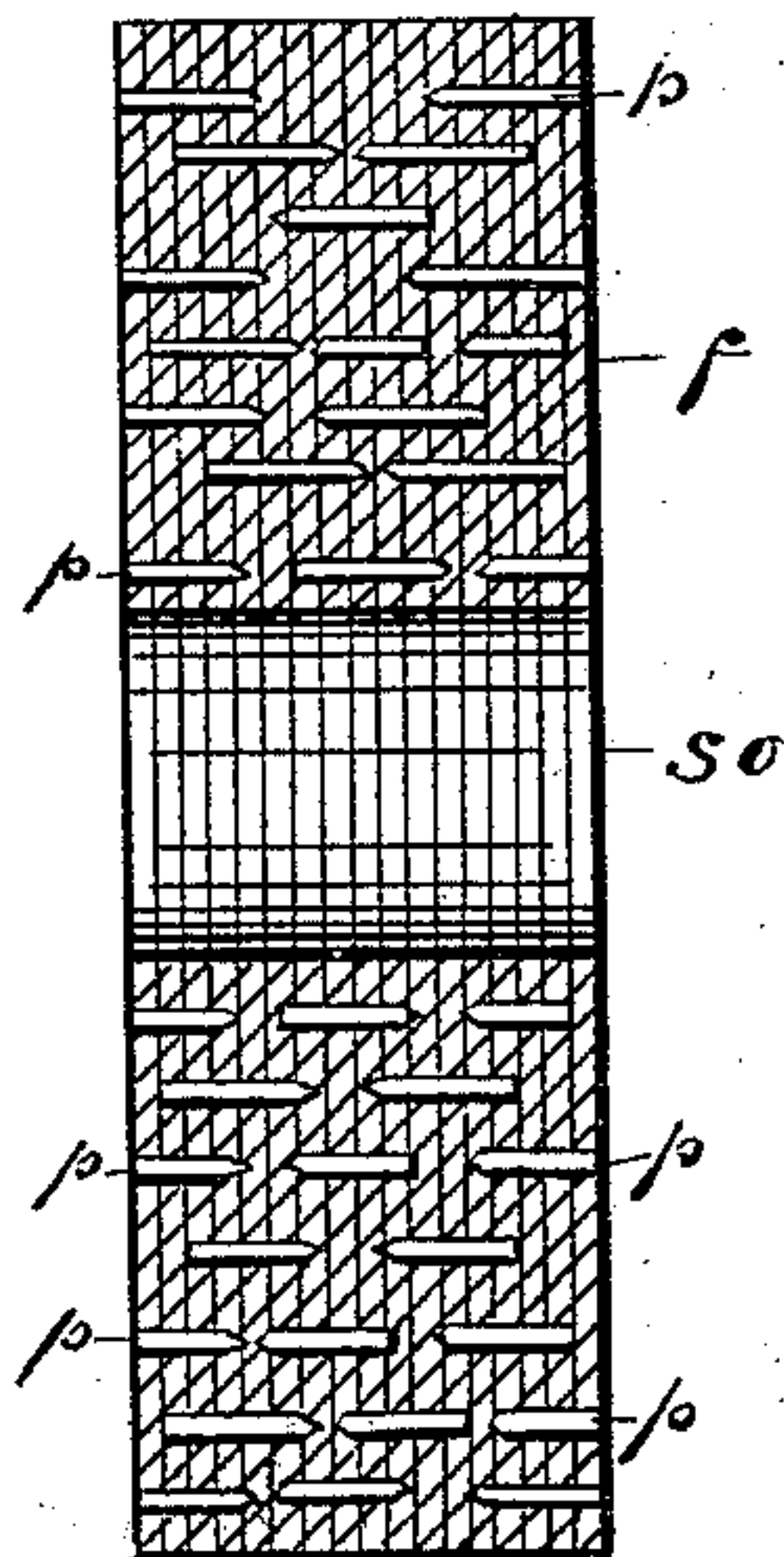


Fig. 4.



WITNESSES.

Jacob W. Cooper,
W. E. Smith

INVENTOR.

William E. Rockwood
By C. P. Jacobs
Atty.

UNITED STATES PATENT OFFICE.

WILLIAM E. ROCKWOOD, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF TO HORATIO C. NEWCOMB, OF SAME PLACE.

PAPER WHEEL.

SPECIFICATION forming part of Letters Patent No. 300,014, dated June 10, 1884.

Application filed April 30, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. ROCKWOOD, a resident of Indianapolis, Indiana, have made certain new and useful Improvements in Paper Wheels, a description of which is set forth in the following specification, reference being made to the accompanying drawings, in the several figures of which like letters indicate like parts.

My invention relates to the construction of wheels from layers of paper or similar material, cemented and compressed together and secured further by screws or pegs, or both, and intended to be used for emery-wheels, friction-wheels, and a variety of other purposes.

In the drawings, Figure 1 is an end view of my device; Fig. 2, a cross-section showing how the pegs and screws are put in; Fig. 3, a cross-section showing the construction where screws alone are used; and Fig. 4 is a similar section showing the construction where pegs alone are used.

In detail, *f* is the wheel, formed of layers of paper-board or other similar material, the layers being cemented together and compressed by any suitable means, such as a hydraulic press.

p are wooden pegs—such as shoe-pegs—which will answer very well, and are driven in so that each peg will pass through several layers of the paper or other material used. These pegs are driven in during the process of construction, the inner ones before the outside layers are put on, and they serve to strengthen the wheels and bind the parts securely together. For emery-wheels it is important that a row of these pegs be driven in near the outer edge of the wheel, as shown

in Fig. 1. *S* are screws, which may also be used in a similar manner to strengthen the wheel, and may be used alone or in conjunction with the pegs. Without these pegs or screws the wheel would break and give way at the edges while being used, especially as an emery or polishing wheel.

I am aware that emery-wheels have been made of paper alone, and do not claim such a device, my invention requiring the use of the pegs or screws, or both together.

What I claim, and desire to secure by Letters Patent, is the following:

1. The wheel *f*, composed of layers of paper or similar material compressed and cemented together to form a solid wheel, and the parts further secured by wooden pegs *p*, each peg passing transversely through only a portion of the layers of which the wheel is made up.

2. A wheel composed of layers of paper or similar material cemented and compressed together, and further secured by wooden pegs, each passing transversely through two or more layers of paper, and the outside layers further held together by means of screws, all combined substantially as described.

3. A wheel composed of layers of paper or similar material cemented and compressed together, the layers further secured by means of screws, each screw passing transversely through two or more layers of paper, substantially as described.

In witness whereof I have hereto set my hand this 24th day of April, 1884.

WILLIAM E. ROCKWOOD.

Witnesses:

C. P. JACOBS,

O. B. MAPLES.