

(No Model.)

W. E. ROCKWOOD.
PAPER FRICTION WHEEL.

No. 300,013.

Patented June 10, 1884.

Fig. 1.

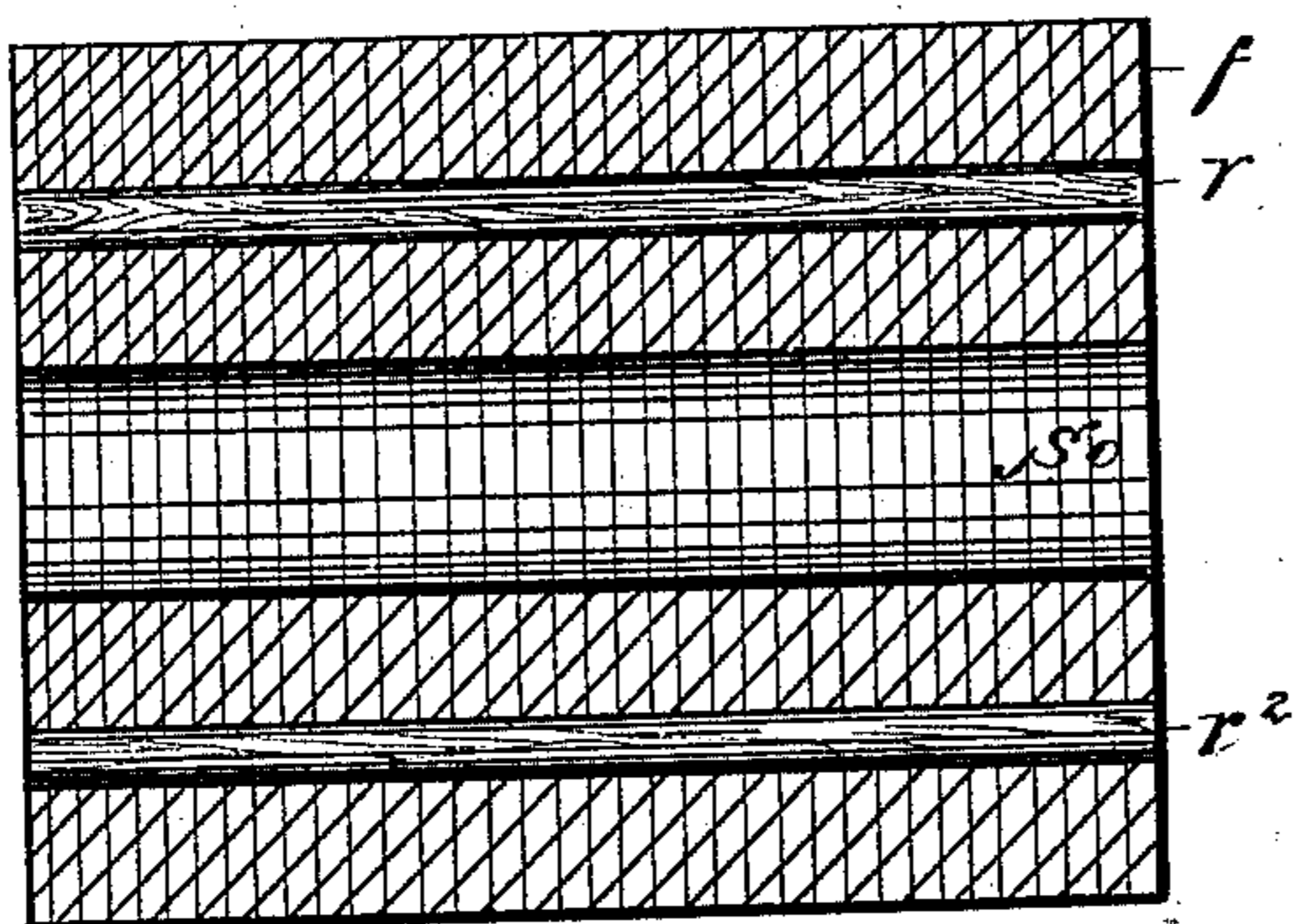


Fig. 2.

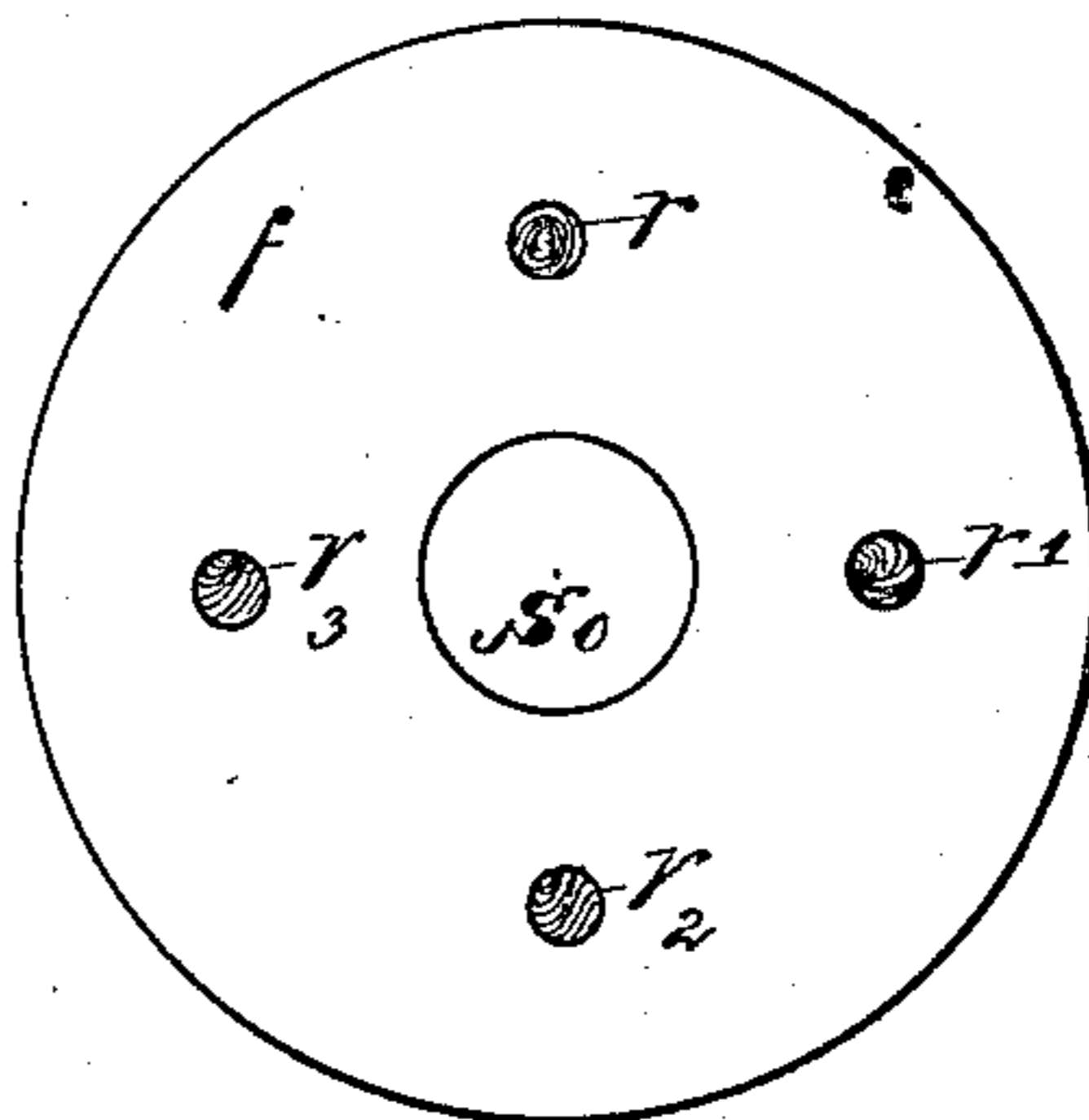
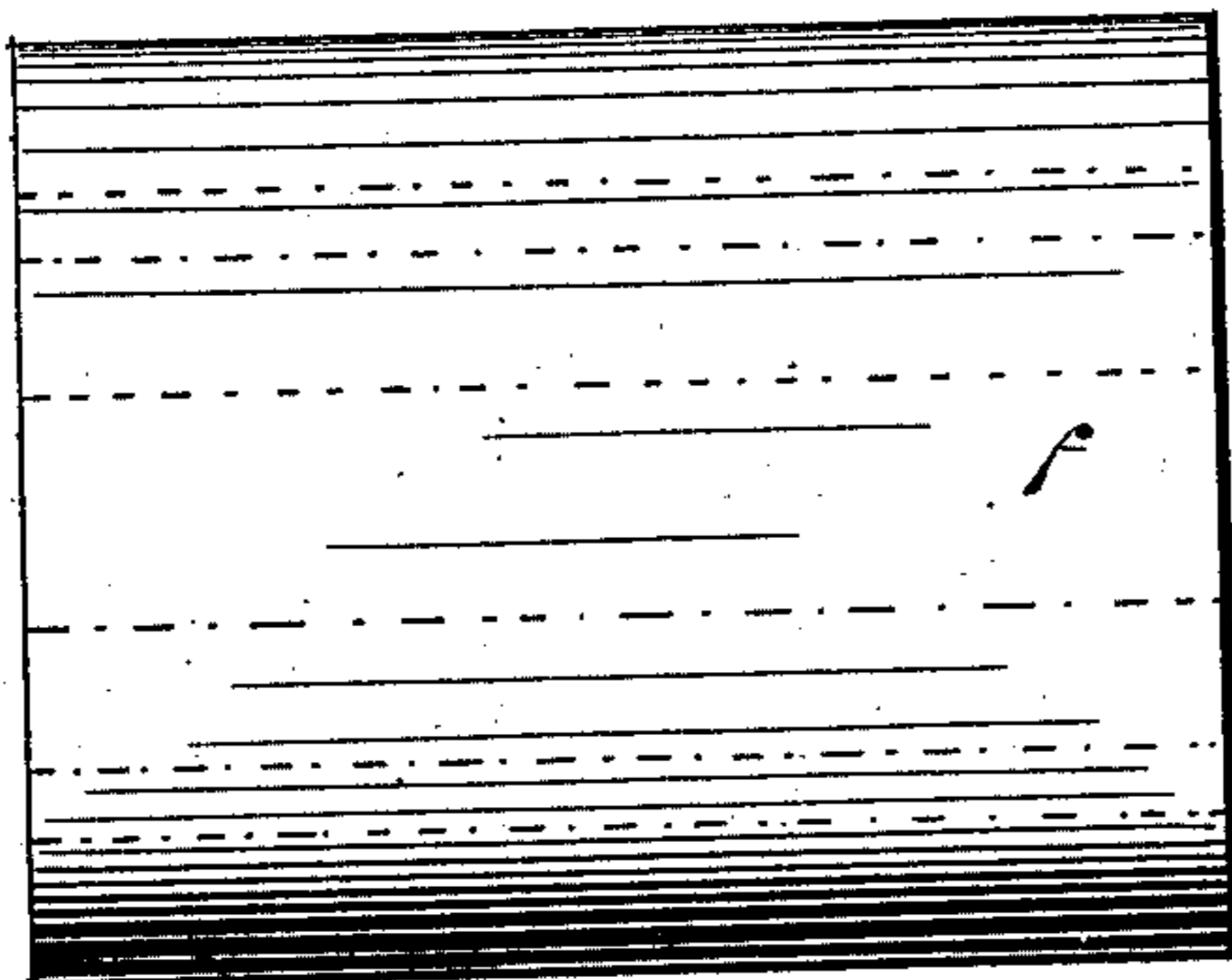


Fig. 3.



WITNESSES.

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UNITED STATES PATENT OFFICE.

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

PAPER FRICTION-WHEEL.

SPECIFICATION forming part of Letters Patent No. 300,013, 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 Friction-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 for transmitting power by friction, the wheel being solid and formed by the compression of paper disks or layers of similar material united by suitable cement and wooden pins, and will be understood from the following description.

In the drawings, Figure 1 is a longitudinal section of my device; Fig. 2, an end and Fig. 3 a face view.

In detail, *f* is the wheel, made of layers of paper-board compressed together. *S* is the opening for the shaft; and *r*, *r'*, *r''*, and *r'''* are wooden pins, which are forced through holes in the layers of paper that make up the wheel, parallel with the opening *S*. These pins greatly strengthen the wheel, and being made of wood allow the wheel to be turned down and finished after the pins are put in, as the wood will be cut away by the finishing-tool as readily as the paper.

Heretofore paper wheels of this sort have been made of layers of paper bolted together, iron disks being placed at each end, and the

wheel must be fitted to the disks and the bolts put through before shipment, while my device allows this to be done by the purchaser, as I can finish my wheel without putting the bolts through or the disks on the ends. My wheel is turned down and finished, as shown in the drawings, and then shipped to the purchaser or user, who can readily put it upon the shaft without trouble, while other wheels made of paper disks have to be turned down after they are mounted on the shaft.

It is obvious that the shape of the wheel is immaterial, and may be varied as the purpose of its use requires.

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

1. The friction-wheel herein described, formed of layers of paper-board or other similar material solidly compressed and cemented together, and provided with the wooden pins running through the wheel substantially parallel with its axis, as and for the purposes set forth.

2. The combination of the solid paper friction-wheel *f* and the wooden pins *r r' r'' r'''*, substantially as described.

Witness my hand this 24th day of April, 1884.

WILLIAM E. ROCKWOOD.

Witnesses:

C. P. JACOBS,
O. B. MAPLES.