

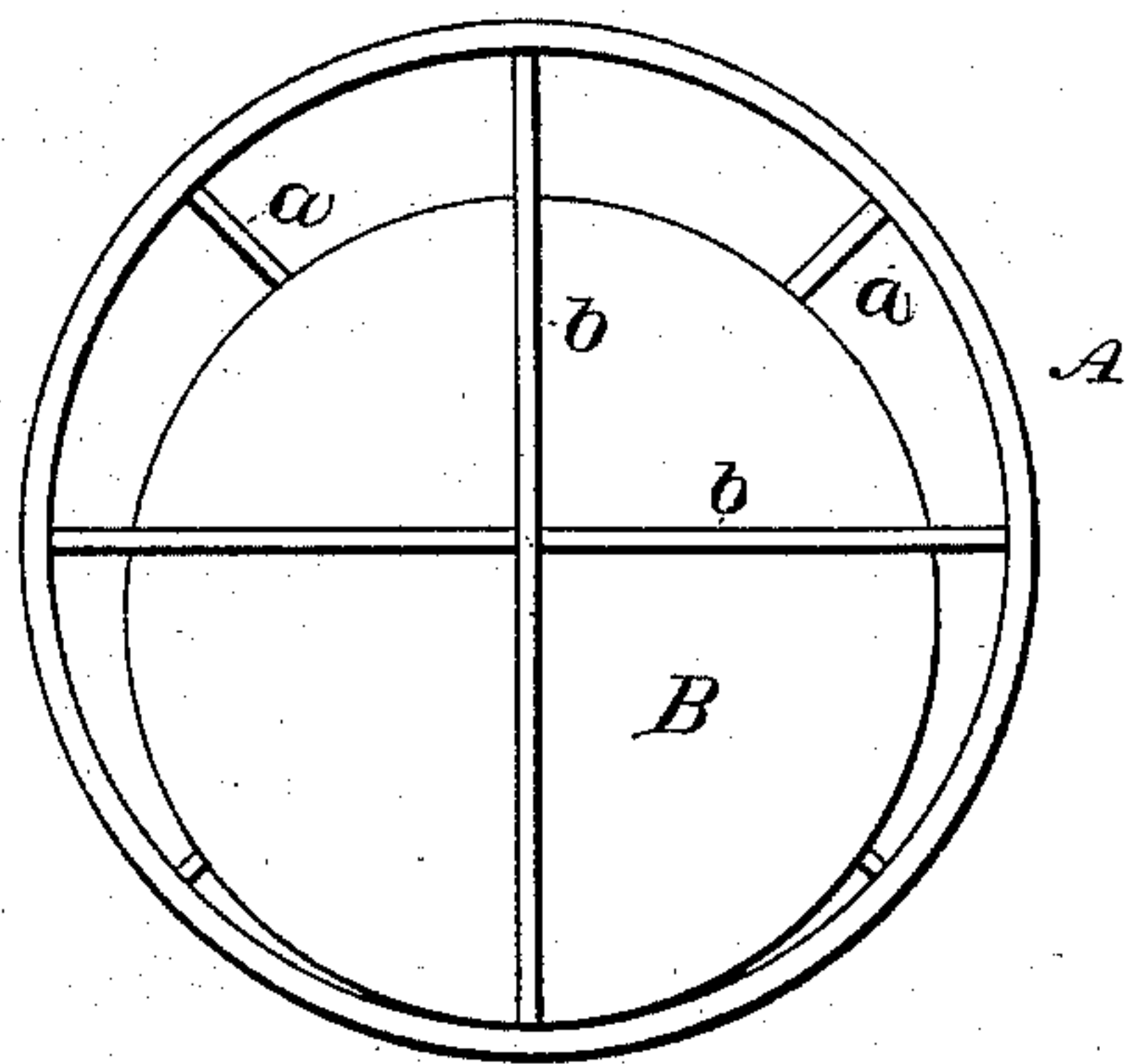
(No Model.)

C. F. SHOURDS.  
TOY.

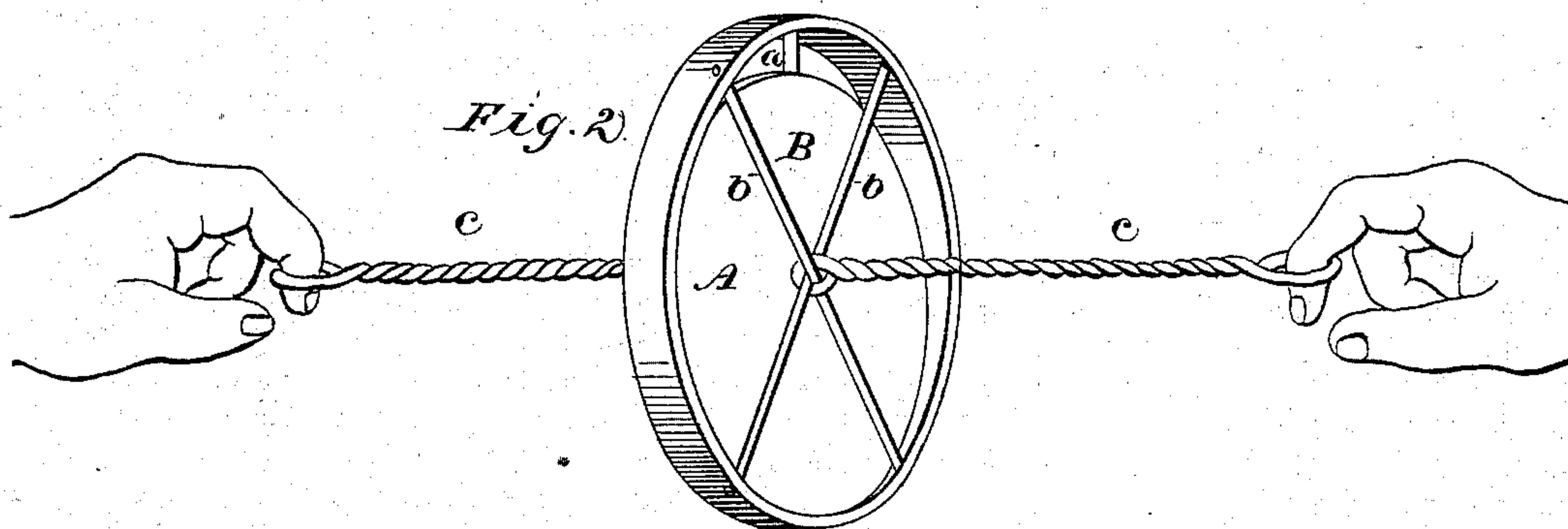
No. 278,462.

Patented May 29, 1883.

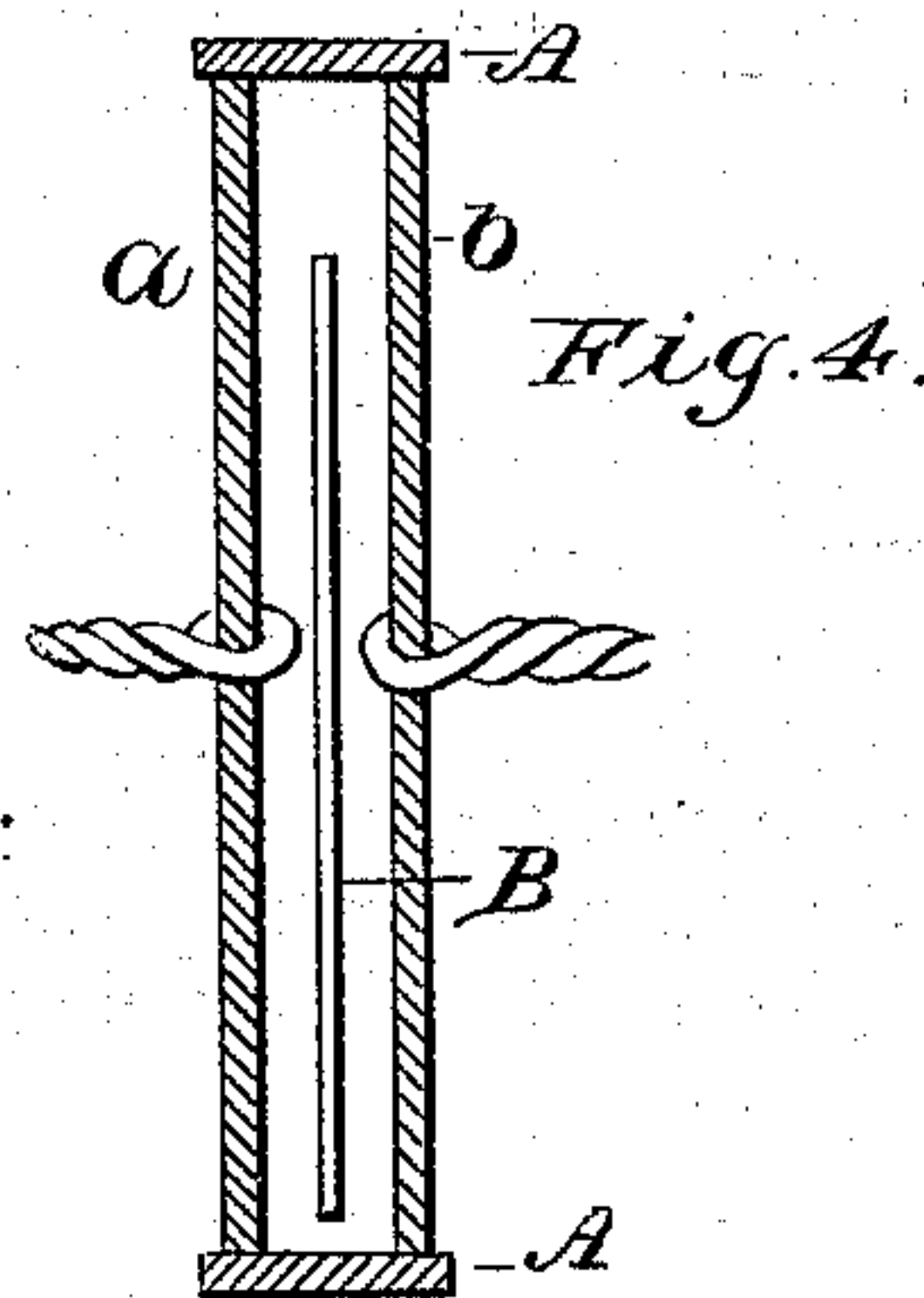
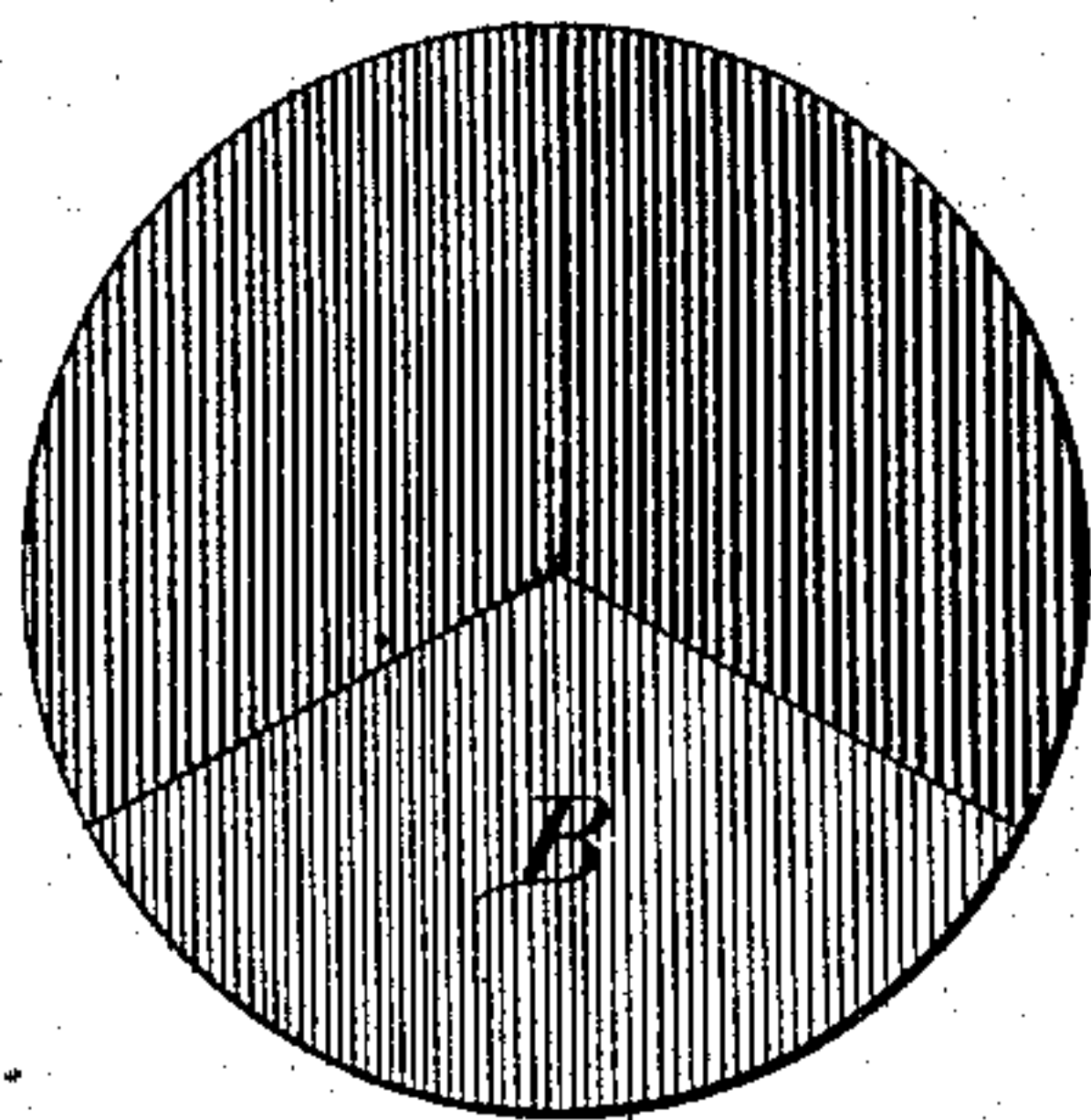
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses:  
George D. Peck,  
J. C. Habig.

Inventor:  
Chas. F. Shourds

# UNITED STATES PATENT OFFICE.

CHARLES F. SHOURDS, OF NEWARK, NEW JERSEY.

## TOY.

SPECIFICATION forming part of Letters Patent No. 278,462, dated May 29, 1883.

Application filed December 28, 1882. (No model.)

### *To all whom it may concern:*

Be it known that I, CHARLES F. SHOURDS, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Toys, of which the following is a specification.

My invention relates to an improvement whereby the production of varying colors by the rotation of a disk bearing the elementary colors is effected in a simple manner. I attain this object by the contrivance illustrated in the accompanying drawings, in which—

Figure 1 represents a wheel inclosing a colored disk, B. Fig. 2 is a three-fourths view of the same, showing the method of operating. Fig. 3 is a side elevation of the disk. Fig. 4 is a section of same.

The wheel is rotated by the torsion of a string or strings, on the principle of the well-known toy commonly called a "buzz;" but instead of the usual plain disk I employ a wheel, as shown, consisting of a rim, A, and spokes or radial arms *a b*, one-half the number of which spokes are arranged on each edge of the rim, respectively, thus affording space between them for the disk B. On each side of

the wheel a string is passed round the spokes at their point of intersection, which string may be of suitable length, and the ends of which are united.

Fig. 2 shows the method of operating. The disk B, Fig. 3, bears upon each surface several colors, and, being smaller than the wheel, lies loosely therein and changes its position relative to the same with each reversal of the motion thereof, thus causing a continual change in the combinations of color by the shifting of the center of rotation.

I am fully aware that the contrivance for rotating a wheel in this manner is not original, and also that the rotation of a party-colored disk for producing various colors is well known; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

The combination, in a toy operated as shown, of a wheel, A, and colored disk B, in the manner and for the purpose substantially as set forth.

CHARLES F. SHOURDS.

Witnesses:

GEORGE D. PECK,  
JOHN C. HABIG.