

O. Nicholson,

Color-trope.

No. 108170.

Patented Oct. 11. 1870.

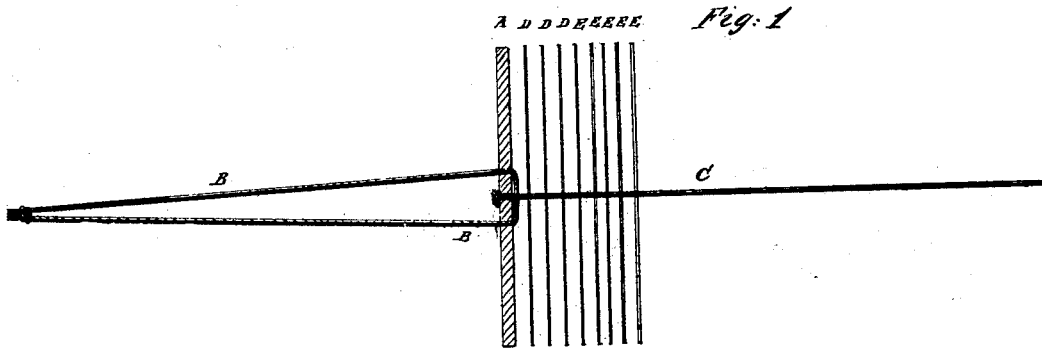


Fig. 2

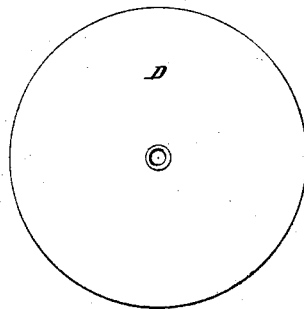
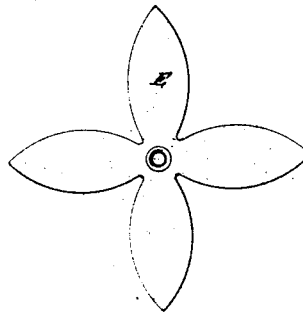


Fig. 3



Witnesses:

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United States Patent Office.

OSCAR NICHOLSON, OF NEW YORK, N. Y.

Letters Patent No. 108,170, dated October 11, 1870.

IMPROVEMENT IN COLORTROPES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, OSCAR NICHOLSON, of the city, county, and State of New York, have invented a new and useful Improvement in Colortrope; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a detail sectional view of my improved colortrope.

Figures 2 and 3 are detail views of different forms for the disks or wheels.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish a simple and amusing toy, called by me a colortrope, and which shall be so constructed that, by giving to it a rapid rotary motion, the colors of the different wheels or disks may blend together, producing beautiful combinations of color; and

It consists in the toy, constructed as hereinafter more fully described.

A is the disk that forms the base or foundation of the toy.

The disk or wheel A is made of bookbinders' board, or other suitable material, that may have sufficient strength to prevent the strings or cords from tearing out, and sufficient weight to cause it to serve as a fly-wheel to give steadiness of motion to the toy when revolving.

In the middle part of the disk A, upon opposite sides of and at equal distances from the center of said disk, are formed two holes, through which is passed the cord B, the ends of which are brought together, and are secured by a knot, or other convenient means.

In the center of the disk A is formed a third hole, through which is passed a second cord, C, upon one end of which is formed a knot, to prevent the said cord from being drawn through the said disk.

The other end of the cord C projects upon the side of the said disk opposite to the projecting ends of the cord B, as shown in fig. 1.

D are circular disks or wheels, made of a lighter

material than the disk A, and with holes in their centers, through which the cord C is passed.

E are star-shaped or scalloped disks or wheels made with holes in their centers for the passage of the cord C.

The disks A D E are all made of bright-colored paper, or are covered with bright-colored paper, or painted in bright colors, each being of a different color, so that by changing the order of said disks different combinations of colors may be produced.

The holes through the disks or wheels A D E may have eyelets placed in them to diminish the friction upon the cord, and to prevent the said disks from being worn by the said cords.

In using the toy the disks are turned around until the cords are twisted. Then, by alternately drawing upon and slackening the cords, a rapid rotation will be given to the disks, producing numerous and beautiful changes and blendings of colors.

It will be observed that the peculiar arrangement of the cords gives the necessary leverage to the cord B, in twisting and untwisting, to give motion to the heavy base disk A, while the other disk running loosely upon a single cord does not change the direction of their motion so quickly, or all at the same time, thus producing a most beautiful kaleidoscopic change of colors.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

1. The arrangement of the two cords B C with the base disk A of the toy, substantially as herein shown and described, and for the purpose set forth.

2. An improved toy or colortrope, formed by the combination of the heavy disk A, cords B C, and disks or wheels D E, with each other, said disks or wheels and cords being constructed, arranged, and operating substantially as herein shown and described, and for the purpose set forth.

The above specification of my invention signed by me this 20th day of August, 1870.

Witnesses:

OSCAR NICHOLSON.

GEORGE W. MABEE,

JAMES T. GRAHAM.