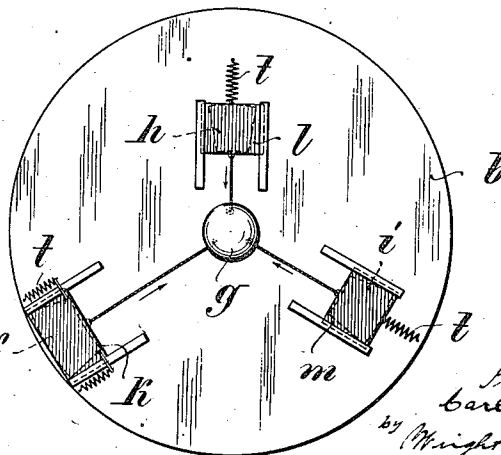
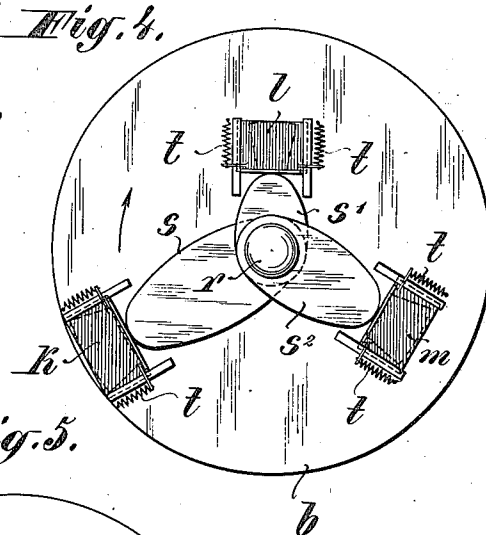
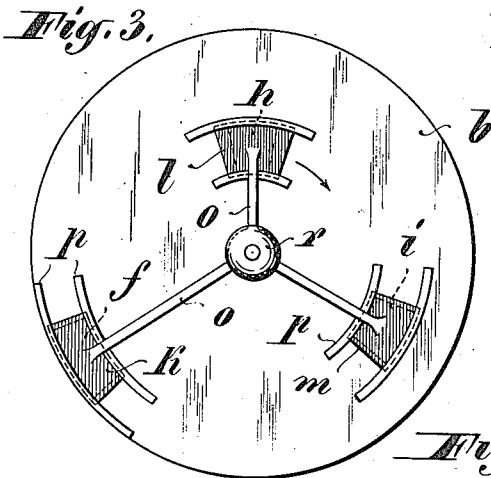
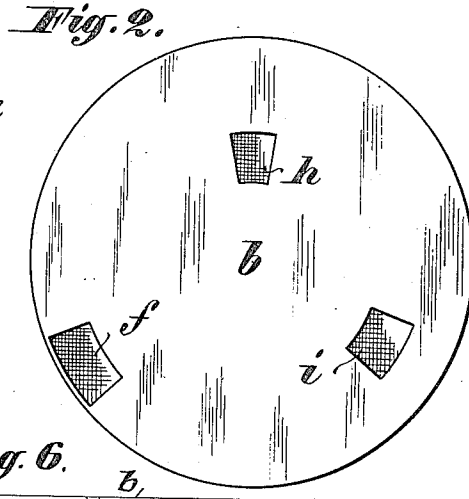
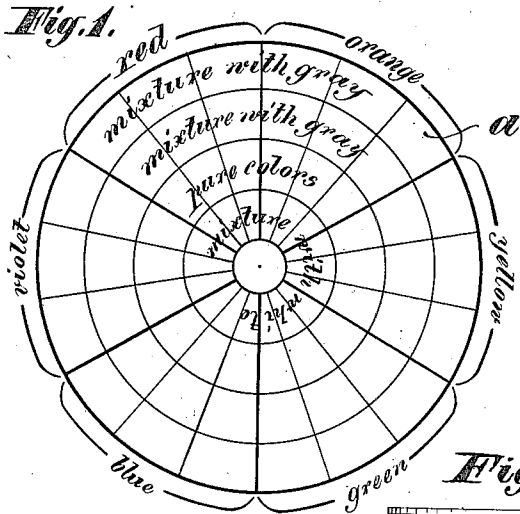


C. SCHNEBEL.
 DEVICE FOR FINDING HARMONIC COLOR SHADES.
 APPLICATION FILED MAY 10, 1909.

974,924.

Patented Nov. 8, 1910.



Witnesses:
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UNITED STATES PATENT OFFICE.

CARL SCHNEBEL, OF BERLIN, GERMANY.

DEVICE FOR FINDING HARMONIC COLOR SHADES.

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Specification of Letters Patent.

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Application filed May 10, 1909. Serial No. 495,205.

To all whom it may concern:

Be it known that I, CARL SCHNEBEL, a subject of the German Emperor, residing at 22 Kurfürstendamm, in the city of Berlin, Kingdom of Prussia, and German Empire, have invented a certain new and useful Device for Finding Harmonic Color Shades, of which the following is a specification.

This invention relates to certain new and useful improvements in devices for securing harmonic combinations of colors.

The invention has for its object to produce a simple and inexpensive device of this character by which the complemental harmonic shades or tints of a given color may be secured, whereby a person not possessing the natural power of color selection will be enabled to choose the proper colors for decorating purposes.

The invention will be hereinafter fully set forth and particularly pointed out in the claim.

In the drawings Figure 1 is a plan view of my improved color disk or chart. Fig. 2 is a similar view of the cover plate therefor. Fig. 3 is a similar view of this plate illustrating one form of sliding covers for the opening in said plate. Figs. 4 and 5 are similar views in modified forms of these slides. Fig. 6 is an edge view of my improved color disk or chart.

Referring to the drawing *a* designates a plate or disk of any suitable material, the same being divided into a series of sectors upon which are the principal and intermediate colors, for instance the six prismatic colors blended one into the other. This disk is also divided by means of a series of concentric circles corresponding to the different degrees of shading of the pure colors by the mixture of white and gray respectively. In this instance, the colors which are shaded by white are located in the center ring, the ring second from the center displaying the pure colors. The next succeeding rings from the center toward the periphery are shaded by the gray or black, the darkest ring being that at the periphery.

Mounted upon the disk *a* and rotatable relatively thereto is a cover plate *b* of any suitable opaque material. In this cover is formed a plurality of openings *f*, *i* and *h*

arranged at different distances from the center thereof. While these openings are shown as located on the apices of an isosceles triangle, any preferred relative arrangement thereof may be made. It will be seen that by rotating the cover *b* upon the disk *a* various different colors and shades thereof may be observed through these openings.

In Fig. 3 a series of covers *k*, *l*, *m*, are shown mounted in the slides *p*. These covers are connected by rods *o* to a single handle *r* so that they may be simultaneously moved in slides *p* thereby uncovering different portions of the openings in the disk *b*.

In Fig. 4 the modified mounting of these covers for the openings is shown. In this instance the covers are shown as being normally forced inward by means of the spring *t* but may be forced outward by means of cam disks *s s'* and *s''* operated by the handle *r*. It will be seen that by rotating the handle *r* the covers will be moved so as to allow the covers to move inward or outward as desired.

In Fig. 5 the covers are shown held normally outward by means of the springs and are adapted to be pulled inward by means of the knob *g* suitably connected therewith by a cord or other flexible material.

In the use of the invention when it is desired to get the harmonic shades or tints of a given color the disk *b* is rotated upon the plate *a* until one of the openings uncovers the color desired. The cover slide of that opening is then manipulated to uncover the various tints and shades shown in the sector beneath the opening. It will be seen from the foregoing that a person who is unable to select the proper harmonic colors can readily do so with this device, as it is only necessary to turn the cover plate to the desired color when the proper harmonic shades or tints thereof may be ascertained. The invention therefore possesses simple, efficient and inexpensive devices of the character described.

I claim:—

A device for finding harmonic color shades comprising a disk divided into a plurality of sectors of different colors and also divided into a series of concentric rings each of a different shade and varying in shade from

the center outward, and a cover plate for said disk rotatably mounted thereon and having a plurality of openings each being of a size to expose a single shade of any one
5 color, said openings being arranged at different distances from the center and out of alinement with each other, whereby upon placing one of said openings over a prede-

termined color complementary harmonic tints are exposed through the remaining openings. 10

In witness whereof I have hereunto set my hand in presence of two witnesses.

CARL SCHNEBEL.

Witnesses:

WOLDEMAR HAUPT,
HENRY HASPER.