R. W. HOCHSTETTER.

COLOR COMPARER.

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1,070,891. Patented Aug. 19, 1913.

Fig. 1.

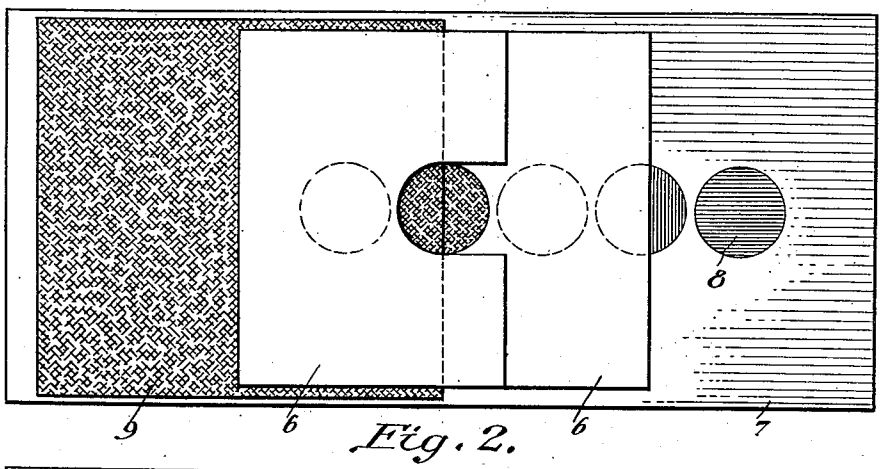


Fig. 2.

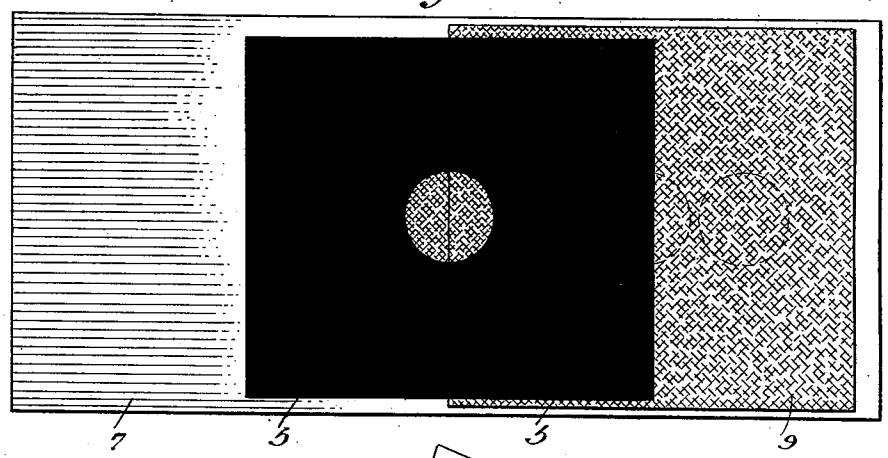
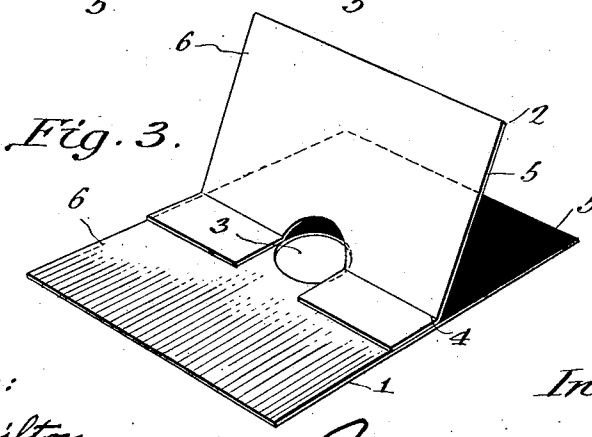


Fig. 3.



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COLOR-COMPARER.

1,070,891. Specification of Letters Patent. Patented Aug. 19, 1913.

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To all whom it may concern:

Be it known that I, ROBERT WILLIAM HOCHSTETTER, a citizen of the United States, and a resident of the city of Cincinnati, in the county of Hamilton and State of Ohio, have invented a certain new and useful Improvement Constituting a Color-Comparer, to be Used in Connection with the Matching of Printing-Inks, of which improvement the following is a full, clear, and exact description.

My improvement relates to a device which aids a printer in comparing shades of color and which enables him to match colors more accurately than without it.

It is well known that colors placed in juxtaposition influence each other and hence it is necessary to cover up all other colors save the one or ones which it is desired to see in its or their true value. Again, it is well known that in order to compare accurately two colors, the same area or surface of each color must be exposed and placed next to each other, and a definite area or surface of a color in solids, in lines, or in screens, must be placed next to exactly the same definite area, or surface, of a color in solids, in lines, or in screens of the same size; otherwise the comparison will not be accurate.

The object of my invention is to produce an efficient, convenient, cheap and simple color comparer.

In order that the shade comparer—which is about 3x4″ in size—may not be lost, I have fastened it to the specimen book by means of a string.

The particular construction of my color comparer, and the method of using the same, will be understood in connection with the description of the accompanying drawings forming a part of this specification, in which:—

Figure 1 is a plan view of the color comparer displaying the article to be matched with a color spot of a sample sheet against a white background. Fig. 2 is a similar view showing the black background. Fig. 3 is a view of the color comparer showing the construction of the folding flap.

The color comparer comprises a shutter 1, preferably a card board, having a folding flap 2, adhesively secured to one face thereof, the orifice 3 being medially intersected by folding line 4. The meeting faces 5 of the flap and shutter are black, so as to constitute this color background when the flap is adjusted, as shown in Fig. 2. The meeting faces 6 of the flap and shutter are white, so as to constitute a background when the flap is adjusted, as shown in Fig. 1. The sample sheet 7 has a series of graded color shades 8, and 9 represents the article to be matched.

The article to be matched is placed between the flap and shutter with the flap folded to the left, for a white background, or in corresponding position to the right if a black background is desired. The folding joint in either case limits the area of insertion to approximately one-half of the area of the orifice, and the shutter is selectively placed over appropriate color shades so as to expose an equal area of the sample. In this way the characteristic color shade or effect of an article can be quickly and accurately matched with reference to the sample sheet display of standard ink shades or effects.

Obviously, the device has utility broader than its use in connection with a sample color sheet.

Color shades or effects to be compared, may be intensified or render different values, according to the modifying influence of a selected contrasting color field, so that a judicious selection of the contrasting field will assist in the comparative color test, although the matter of field selection is somewhat subject to the color idiosyncracies of the user. I therefore preferably offer a selection between fields of the widest extremes, black and white, although this suggestion has no limiting significance.

Having thus described my invention, what I desire to claim as new and to cover by Letters Patent, is:—

1. A device of the nature disclosed for use in connection with a sample color, comprising a multiple color sample sheet and an orificed shutter adapted to be placed concurrently over the article to be matched and the individual color spots of the sample sheet, comparatively displaying said colors through the orifice.

2. A device of the nature disclosed for use in connection with a sample color, comprising an orificed shutter adapted to be placed concurrently over the article to be matched and the individual color spots of the sample sheet, comparatively displaying said colors through the orifice, within the

contrasting color field of the exposed face of the shutter.

3. A device of the nature disclosed for use in connection with a sample color, comprising an orificed shutter adapted to be placed concurrently over the article to be matched and the individual color spots of the sample sheet, comparatively displaying said colors through the orifice, within the contrasting color field of the exposed face of the shutter, and means fixing the area of the exposure of the article to be matched relative to the orifice.

4. A device of the nature disclosed for use in connection with a sample color, comprising an orificed shutter adapted to be placed concurrently over the article to be matched and the individual color spots of the sample sheet, comparatively displaying said colors through the orifice, within the contrasting color field of the exposed face of the shutter, and means limiting the area of the exposure of the article to be matched to approximately one-half the area of the orifice.

5. A device of the nature disclosed for use in connection with a sample color, comprising an orificed shutter, the opposing faces of which have contrasting color fields, said cover being adapted to be placed concurrently over the article to be matched and the individual color spots of the sample sheet, comparatively displaying said colors through the orifice.

6. A device of the nature disclosed for use in connection with a sample color, comprising a shutter formed with a hinged flap, said shutter and flap being formed with an orifice intersecting the folding line of said flap, enabling an article to be matched to be inclosed between the flap and shutter and exposed through said orifice in comparison with sample color spots over which the shutter may be selectively placed.

7. A color comparer comprising a shutter formed with a hinged flap, said shutter and flap being formed with an orifice intersecting the folding line of said flap, the meeting surfaces being of one color when the flap is folded in one direction against the shutter, and of another color when the flap is folded in the other direction against the shutter.

8. A color comparer comprising a shutter formed with a hinged flap, said shutter and flap orificed on the flap folding line to expose a sample color and article to be matched through the shutter and flap.

9. A color sampler comprising an orificed shutter, having a contrasting color field relative to the colors to be compared when concurrently displayed in the area of the orifice.

10. A color sampler comprising a shutter formed with a folding flap and with an orifice intersecting the folding line, enabling a predetermined area of the article to be matched to be exposed through the orifice when enfolded between the flap and shutter in juxtaposition to a sample color concurrently displayed through the remaining portion of said orifice.

11. A color sampler comprising a shutter formed with a hinged flap and formed with a display orifice medially intersecting the folding line, the meeting surfaces being of one color when the flap is folded in one direction against the shutter and of another color when the flap is folded in the opposite direction against the shutter whereby the orifice is surrounded by alternative contrasting color fields adapted to assist in the comparison of colors to be matched when concurrently displayed within the orifice.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."