

Color Library System and Flexible Color Palette Sheet therefor

Technical Field

The present invention relates to a color library system and a flexible color palette sheet therefor.

5 Background

Conventional color library systems typically use ring binders often holding a large plurality of color palette sheets with multiple color samples attached to these color palette sheets. For these conventional color library systems, the color palette sheets are made of rigid materials like rigid cardboard materials or rigid plastic materials. By such a configuration, these color palette sheets of rigid materials allow for a stable storage. However, a direct comparison of these color samples with other objects or materials can be cumbersome.

Summary

Therefore, an object of the present invention is to facilitate the handling for comparisons of the color samples arranged on color palette sheets.

The problem of the present invention is solved by a color library system according to the independent claim 1 as well as by a flexible color palette sheet for the color library system according to the independent claim 7.

According to a first aspect of the present invention, a color library system comprises a binder having a binding part; a flexible color palette sheet having a connection part for an insertion into the binding part of the binder; optionally a front cover of the binder being attached such at the binding part that it can be flipped open; and optionally a back cover of the binder. The flexible color palette sheet is made of a flexible substrate, and multiple color samples for illustrating colors corresponding to respective color codes are attached on a side of the flexible color palette sheet, wherein said color codes are indicated on the flexible color palette sheet at the corresponding color samples.

According to a second aspect of the present invention, for the color library system according to the first aspect, an adhesive is used for attaching said multiple color samples on the side of the flexible color palette sheet. Preferably, in one embodiment in case the substrate is a textile, the adhesive is a textile adhesive, and more preferably it is a pressure-sensitive textile adhesive, and even more preferably it is a permanent pressure-sensitive textile adhesive. Preferably, the adhesive, in particular the textile adhesive is a polyurethane-reactive adhesive, or a polyvinyl acetate fabric glue or a polyurethane fabric adhesive or a silicon fabric adhesive. In particular, the adhesive can be a hot melt adhesive. Preferably the hot melt adhesive comprises or consists of a ethylene vinyl acetate copolymer. The multiple

color samples may also be stitched to the side of the flexible color palette sheet.

According to a third aspect of the present invention, for the color library system according to the first aspect or the second aspect, at least one material component of the flexible substrate is a flexible textile selected from a fabric group comprising woven, nonwoven, or knit and material type of cotton, polyester, polyamide or another flexible textile; and/or a flexible plastic; and/or a flexible paper; and/or at least one material component of the color samples is selected from the fabric group comprising woven, nonwoven, or knit and material type of cotton, polyester, polyamide or another flexible textile; or from a stiff or flexible plastic; or from a stiff or flexible paper.

According to a fourth aspect of the present invention, for the color library system according to anyone of the first aspect to the third aspect, the flexible color palette sheet has a flexibility allowing it to be folded completely upon itself.

According to a fifth aspect of the present invention, for the color library system according to anyone of the first aspect to the fourth aspect, the flexible color palette sheet has a first rectangular shape and the multiple color samples have a second rectangular shape, wherein the multiple color samples are attached on the side of the flexible color palette sheet in a regular arrangement having m lines and n columns, m and n being positive integers.

According to a sixth aspect of the present invention, for the color library system according to anyone of the first aspect to the fifth aspect, the multiple color samples are fixedly attached on the side of the flexible color palette sheet; and/or the multiple color samples are attached on both sides of the flexible color palette sheet.

The binder used, can be designed as ring binder (1), having a binding part (2), wherein the flexible color palette sheet (10) has a connection part (11) for a detachable insertion into the binding part (2) of the ring binder (1). It is, however, also possible that the binder used can be any other means for binding together two or more color palette sheets, e.g. by gluing the sheets together, or by stitching /sewing them together at the binding part.

According to a seventh aspect of the present invention, a flexible color palette sheet for these color library systems is made of a flexible substrate, and multiple color samples for illustrating colors corresponding to respective color codes are attached on a side of the flexible color palette sheet, wherein said color codes being indicated on the flexible color palette sheet at the corresponding color samples.

According to an eighth aspect of the present invention, for the flexible color palette sheet according to the seventh aspect, an adhesive is used for attaching said multiple color samples on the side of the flexible color palette sheet. Preferably, in one embodiment in case the substrate is a textile, the adhesive is a textile adhesive, and more preferably it is a pressure-sensitive textile adhesive, and even more preferably it is a permanent pressure-

sensitive textile adhesive. Preferably, the adhesive, in particular the textile adhesive, is a polyurethane-reactive adhesive, or a polyvinyl acetate fabric glue or a polyurethane fabric adhesive or a silicon fabric adhesive. In particular, the adhesive is a hot melt adhesive. Preferably the hot melt adhesive comprises or consists of a ethylene vinyl acetate copolymer.

5 The multiple color samples may also be stitched to the side of the flexible color palette sheet.

According to a ninth aspect of the present invention, for the flexible color palette sheet according to the seventh aspect or the eighth aspect, at least one material component of the flexible substrate is a flexible textile selected from the group comprising woven, nonwoven, or knit cotton, polyester, polyamide or another flexible textile substrate; and/or a
10 flexible plastic; and/or a flexible paper; and/or at least one material component of the color samples is selected from a fabric group comprising woven, nonwoven, or knit cotton, polyester, polyamide or another flexible textile; or from a stiff or flexible plastic; or from a stiff or flexible paper.

According to a tenth aspect of the present invention, for the flexible color palette
15 sheet according to anyone of the seventh aspect to the ninth aspect, the flexible color palette sheet has a flexibility allowing it to be folded completely upon itself.

According to a eleventh aspect of the present invention, for the flexible color palette sheet according to anyone of the seventh aspect to the tenth aspect, the flexible color palette sheet has a first rectangular shape and the multiple color samples have a second rectangular
20 shape, wherein said multiple color samples are attached on the side of the flexible color palette sheet in a regular arrangement having m lines and n columns, m and n being positive integers.

According to a twelfth aspect of the present invention, for the flexible color palette sheet according to anyone of the seventh aspect to eleventh aspect, the multiple color
25 samples are fixedly attached on the side of the flexible color palette sheet; and/or the multiple color samples are attached on both sides of the flexible color palette sheet.

The multiple color samples according to the aspects mentioned before can display colors for dyeing textile, paper and plastics. Thus, in case the multiple color samples should display dyes for dyeing textile, the multiple color samples are made of textile dyed with
30 respective textiles dyes. In case the multiple color samples should display dyes for dyeing paper, the multiple color samples are made of paper dyed with respective paper dyes. In case the multiple color samples should display dyes for dyeing plastics, the multiple color samples are made of plastics dyed with respective plastic dyes.

Brief Description of the Drawings

35 In order to more clearly illustrate the solutions according to the present invention, the accompanying drawings used in the description of an embodiment of the present invention will be discussed.

Fig. 1 shows a color library system comprising ring binder and flexible color palette sheets according to an embodiment of the present invention.

Fig. 2 shows a flexible color palette sheet according to an embodiment of the present invention.

5 Fig. 3 shows the flexible color palette sheet in a folded state.

Detailed Description

The figure 1 shows a color library system according to an embodiment of the present invention, while the figure 2 shows a detailed view of the flexible color palette sheet according to the embodiment of the present invention.

10 The color library system comprises a ring binder 1 with a binding part 2 for accommodating flexible color palette sheets 10. The ring binder 1 comprises further a front cover 3 and a back cover 4. The flexible color palette sheet 10 can be detachably inserted into the binding part 2 of the ring binder 1. Accordingly, it can easily be removed for its respective use. The flexible color palette sheet 10 is made of a flexible material, which can
15 be a flexible textile. The flexible textile has the advantage of a higher endurance for folding improving the durability or lifetime of the product.

Furthermore, a plurality of color samples 100 are attached on one side of the flexible color palette sheet 10, the of color samples 100 illustrating colors corresponding to respective color codes 100a, which are indicated at the respective color samples 100. One
20 example of an arrangement of the color samples 100 and the corresponding color codes 100a is shown in the figure 2. The flexible color palette sheet 10 has a rectangular shape, while the color samples 100 have a square shape being arranged in n rows and m column, with n and m being integers greater than one. However, other arrangements and shapes of the color samples 100 are possible. For example, the shape of the color samples 100 might
25 be circular, oval, square or triangular.

Furthermore, at least one material of the material component of the flexible color palette sheet 10 can be selected from the fabric group comprising woven, nonwoven, or knit and material type of cotton, polyester, polyamide or another flexible textile substrate or from a flexible paper substrate. In a preferred embodiment, the flexible textile is waterproof or has
30 a waterproof protection layer. Such a configuration can improve the suitability for an outdoor use or an use in environments with high humidity.

In a preferred embodiment, the color samples 100 are also flexible and at least one material component of the color samples 100 can be selected from the fabric group comprising woven, nonwoven, or knit and material type of cotton, polyester, polyamide or
35 another flexible textile substrate or from a flexible paper substrate. In a preferred embodiment, the material of the color samples 100 is waterproof or has a waterproof protection layer. Such a configuration can improve the suitability for an outdoor use or an

use in environments with high humidity. In one embodiment, the flexibility of the color samples 100 is similar to or equal to the flexibility of the flexible color palette sheet 10.

According to a preferred embodiment shown in the figure 2, the flexible color palette sheet 10 has a first rectangular shape. However, the flexible color palette sheet 10 is not limited to this shape and others shapes for the flexible color palette sheet 10 are also possible. For example, its shape might be circular, oval, square or triangular.

As shown in the figure 3, the flexible color palette sheet 10 exhibits such a flexibility that it can be folded completely upon itself. This flexibility allows to bring the envisaged color sample 100 on the flexible color palette sheet 10 in a closest vicinity to the envisaged locations on the objects for an improved comparison of the colors or for an improved illustration of the envisaged color on the envisaged location on the objects. This facilitated illustration or comparison can be of interest for large or complex objects, and in particular for rigid objects.

15 List of Reference Signs

1	ring binder
2	binding part
3	front cover
20 4	back cover
10	flexible color palette sheet
100	color sample
100a	color codes

Claims

1. A color library system comprising:
 - a binder having a binding part ;
 - a flexible color palette sheet (10) having a connection part for a insertion into the binding
 - 5 part of the binder;
 - optionally a front cover of the binder being attached such at the binding part that it can be flipped open; and
 - optionally a back cover of the binder, wherein
 - the flexible color palette sheet (10) is made of a flexible substrate, and
 - 10 multiple color samples (100) for illustrating colors corresponding to respective color codes (100a), said multiple color samples (100) being attached on a side of the flexible color palette sheet (10), and said color codes (100a) being indicated on the flexible color palette sheet (10) at the corresponding color samples (100).
2. The color library system according to claim 1, wherein an adhesive is used for attaching said
- 15 multiple color samples (100) on the side of the flexible color palette sheet (10).
3. The color library system according to claim 1 or 2, wherein
 - at least one material component of the flexible substrate is a flexible textile selected from a fabric group comprising woven, nonwoven, or knit and material type of cotton, polyester, polyamide or another flexible textile; and/or a flexible plastic; and/or a flexible paper; and/or
 - 20 at least one material component of the color samples (100) is selected from a fabric group comprising woven, nonwoven, or knit and material type of cotton, polyester, polyamide or another flexible textile; or from a stiff or flexible plastic; or from a stiff or flexible paper.
4. The color library system according to anyone of the claims 1 to 3, wherein the flexible color palette sheet (10) has a flexibility allowing it to be folded completely upon itself.
- 25 5. The color library system according to anyone of the claims 1 to 4, wherein the flexible color palette sheet (10) has a first rectangular shape and the multiple color samples (100) have a second rectangular shape, said multiple color samples (100) being attached on the side of the flexible color palette sheet (10) in a regular arrangement having m lines and n columns, m and n being positive integers.
- 30 6. The color library system according to anyone of the claims 1 to 5, wherein

the multiple color samples (100) are fixedly attached on the side of the flexible color palette sheet (10); and/or

the multiple color samples (100) are attached on both sides of the flexible color palette sheet (10).

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7. The color library system according to at least one of the claims 1 to 6, wherein the binder is designed as a ring binder (1), having a binding part (2), wherein the flexible color palette sheet (10) has a connection part (11) for a detachable insertion into the binding part (2) of the ring binder (1).
- 10 8. A flexible color palette sheet (10) for a color library system according to one of the preceding claims, wherein
the flexible color palette sheet (10) is made of a flexible substrate, and
multiple color samples (100) for illustrating colors corresponding to respective color codes (100a) are attached on a side of the flexible color palette sheet (10), said color codes (100a) being indicated on the flexible color palette sheet (10) at the corresponding color samples (100).
- 15 9. The flexible color palette sheet (10) according to claim 8, wherein an adhesive is used for attaching said multiple color samples (100) on the side of the flexible color palette sheet (10).
- 10 10. The flexible color palette sheet (10) according to claim 8 or 9, wherein
at least one material component of the flexible substrate is a flexible textile selected from a fabric group comprising woven, nonwoven, or knit and material type of cotton, polyester, polyamide or another flexible textile; and/or a flexible plastic; and/or a flexible paper; and/or
at least one material component of the color samples (100) is selected from the fabric group comprising woven, nonwoven, or knit and material type of cotton, polyester, polyamide
25 or another flexible textile; or from a stiff or flexible plastic; or from a stiff or flexible paper.
11. The flexible color palette sheet (10) according to anyone of the claims 8 to 10, wherein the flexible color palette sheet (10) has a flexibility allowing it to be folded completely upon itself.
12. The flexible color palette sheet (10) according to anyone of the claims 8 to 11, wherein the flexible color palette sheet (10) has a first rectangular shape and the multiple color samples (100) have a second rectangular shape, said multiple color samples (100) being attached on
30 the side of the flexible color palette sheet (10) in a regular arrangement having m lines and n columns, m and n being positive integers.

13. The flexible color palette sheet (10) according to anyone of the claims 8 to 12, wherein
the multiple color samples (100) are fixedly attached on the side of the flexible color
palette sheet (10); and/or
the multiple color samples (100) are attached on both sides of the flexible color palette
sheet (10).
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