UDC 677.074 : 745.52

SKETCHES OF INTERIOR FABRICS IN KALEIDOSCOPE STYLE

ЭСКИЗЫ ТКАНЕЙ ДЛЯ ИНТЕРЬЕРА ПО МОТИВАМ КАЛЕЙДОСКОПА

Samutsina N., Shebeko V.
Vitebsk state technological university, Belarus, e-mail: samusiya@mail.ru
Самутина Н. Н., Шебеко В. Г.
Витебский государственный технологический университет, Беларусь

ABSTRACT

FABRIC, INTERIOR, SKETCH, FABRIC COLLECTION, PRINTED PATTERN

The article deals with the expansion of the linen fabrics range for the interior, as well as the problems of their design. A collection of fabrics in trending colors is developed.

АННОТАЦИЯ

ТКАНЬ, ИНТЕРЬЕР, ЭСКИЗ, КОЛЛЕКЦИЯ ТКАНЕЙ, ПЕЧАТНЫЙ РИСУНОК

В статье рассматриваются вопросы расширения ассортимента льняных тканей для интерьера, а также проблемы их проектирования. Создана коллекция тканей в актуальной цветовой гамме.

Currently, it is important to expand the range of interior fabrics, improving their quality and aesthetic properties. Analysis of fashion trends of interior styles allowed to identify the type of ornament that is modern and can be used for further design of kaleidoscopic pattern.

The purpose of this article is to identify the principles which serve as the basis of the process of implementing the ideas of creating one of the textile interior elements – decorative pillows with a printed pattern. To achieve this purpose, the following tasks are set: to determine the shape of products, to create a collection of printed drawings of fabrics for decorative pillows.

It is established that an unconventional method is to develop the basic idea of the collection by combining three creative sources within one artistic image: kaleidoscope, stained glass, as well as the style and technique of Vincent van Gogh's works. In accordance with this, the stylistic solution and the combination of colors of the collection were determined: the fragmentation of elements into small segments, as well as ocher-gold and blue-light blue colors with gradation from light to dark.

The kaleidoscope motif is quite popular among designers. It is often found in the form

of jewelry, it is used as accents of color and texture spots in the interiors, in the garments design, as well as in the design of architectural structures (Fig. 1).

Figure 1 – The use of the motif of kaleidoscope: a) decoration; b) interior; c) clothing; d) architecture

In the process of implementation of the preparatory work the analysis of information sources was made, the set of rational shape and size of the product was chosen with the following parameters: square shape 60x60 cm. Linen fabric was chosen as the basic material which corresponds to product characteristics. For drawing on a fabric was chosen a digital method.

As a result of modeling with the use of advanced computer software, Adobe Photoshop graphic package, eight variants of fabric sketches for decorative pillows were designed (Fig. 2).

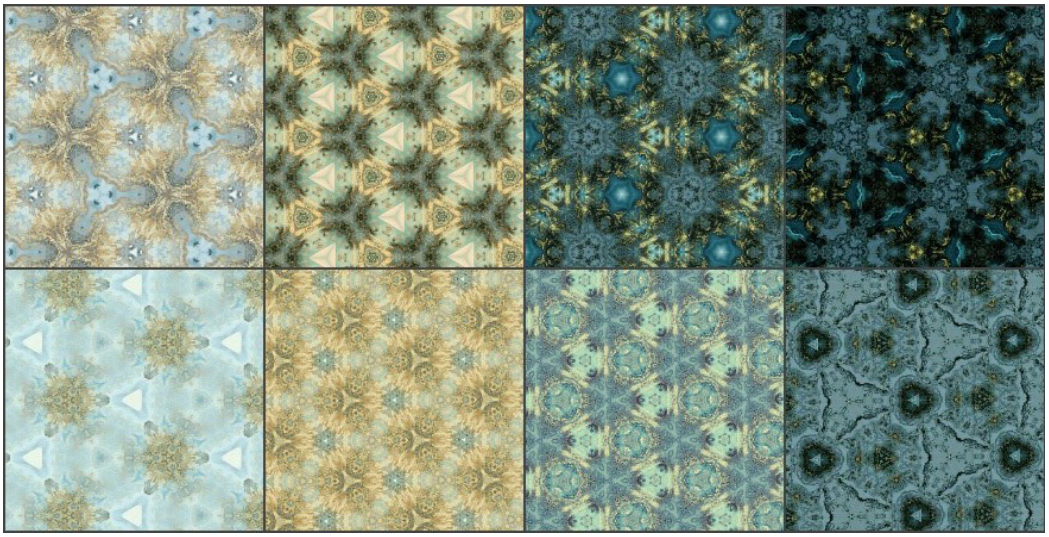

Figure 2 – Sketches of fabrics collection for decorative pillows

Sketches in the collection are arranged in a sequence that allows the most active disclosure of their color and graphic characteristics. The plastic solution of the drawings is based on the principle of complex geometric shapes flowing into smooth elements. Attention is focused on a graphical supply: used spot and linear-spot graphics. The sequence of the sketches allows to most clearly reveal their color and graphic features.

The principles of artistic and compositional construction of a collection of fabrics for decorative pillows with a printed pattern are introduced in the educational process of Vitebsk State Technological University. Products can be used for living room or bedroom interior decoration.

REFERENCES

1. Шебеко, В. Г. Разработка коллекции рисунков тканей для декоративных подушек / В. Г. Шебеко, Н. Н. Самутина // III Международная научно-практическая конференция «Современное состояние легкой и текстильной промышленности: инновации, эффективность, экологичность» (12-17 сентября 2017 г.) : сборник тезисов докладов, Херсон: Издательство ХНТУ, 2017. – С. 144-145.

2. Шебеко, В. Г. Коллекция декоративных подушек / В. Г. Шебеко, Н. Н. Самутина // 50 Международная научно-техническая конференция преподавателей и студентов, посвященная году науки : материалы докладов. В 2 т. Т 2 / УО «ВГТУ». — Витебск, 2017. — С. 52-53.

3. Счастная, Е. А. Моделирование ленты отделочной с использованием белорусских мотивов / Е.А. Счастная, Н.Н. Самутина // Сб. материалов докладов Международной научно-технической конференции «Инновационные технологии в текстильной и

легкой промышленности», посвященной Году Науки, 21-22 ноября, ВГТУ: УО «ВГТУ». — Витебск, 2017. — С. 161-164.

4. Самутина, Н. Н. Технология полульняных костюмных тканей в продольную полоску / Н. Н. Самутина // Вестник Витебского государственного технологического университета. – 2010. – № 19. – С. 90.

УДК 681.786.23

FEATURES OF HUMAN FIGURES 3D SCANNING

ОСОБЕННОСТИ 3D-СКАНИРОВАНИЯ ФИГУРЫ ЧЕЛОВЕКА

Zamotsin M., Dyagilev A.

Vitebsk State Technological University, Belarus

Замотин Н. А., Дягилев А. С.

Витебский государственный технологический университет, Беларусь

ABSTRACT

3D-SCANNER, 3D SCANNING TECHNOLOGY, CLOTHING DESIGN, DIMENSIONAL SIGNS

The article deals with the expansion of the linen fabrics range for the interior, as well as the problems of their design. A collection of fabrics in trending colors is developed.

Non-contact methods are becoming increasingly popular for obtaining information about the dimensional signs of a human figure [1]. There are various systems for scanning and measuring the anthropometric characteristics of the human body.

There are many universal and highly specialized 3D scanning systems presented on the market. Universal systems are designed to scan a human figure as a whole [2, 3]. Specialized systems are widely used in medicine and provide a more detailed 3D model of individual parts of the human body: arms [4], legs [5], chest [6], etc.

Modern 3D scanners allow to get a computer model of the scanned object. The required dimensional characteristics can be measured on the 3D model later.

As part of this work, the task was to measure the size of a human figure for the purpose of designing clothes. 3D models were obtained using a 3D scanner consisting of 4 Kinect sensors mounted on a fixed bar and a rotating platform [7].

The quality of scanning depends on the technical characteristics of the scanning system: the resolution of optical sensors, their number, features of the design, etc., and the features of the scanned object.