

UDC 746

**IMAGES OF FRAGMENTS OF CIRCUIT BOARDS  
AND MICROCHIPS OF ELECTRONIC DEVICES IN A  
TEXTILE DRAWING****ИЗОБРАЖЕНИЯ ФРАГМЕНТОВ ПЛАТ И  
МИКРОСХЕМ ЭЛЕКТРОННЫХ УСТРОЙСТВ В  
ТЕКСТИЛЬНОМ РИСУНКЕ***Shcherochkina Ju.**Ivanovo State Polytechnical University, Russia**Щепочкина Ю.А.**Ивановский государственный политехнический университет,  
Российская Федерация*

*Keywords: textile pattern, fragments of boards and microcircuits, electronic devices, fabric, clothing*

*Ключевые слова: текстильный рисунок, фрагменты плат и микросхем, электронные устройства, ткань, одежда.*

*Abstract. To create a textile pattern, it is proposed to use compositions that include images of fragments of circuit boards and microcircuits of computers, mobile phones, and other electronic devices.*

*The use of compositions that include images of fragments of circuit boards and chips of electronic devices, as well as their combination with color fields and, possibly, with a traditional textile pattern, creates prerequisites for the emergence of a new style direction in the design of fabrics.*

*Аннотация. Для создания текстильного рисунка предложено использовать композиции, включающие изображения фрагментов плат и микросхем компьютеров, мобильных телефонов, других электронных устройств.*

*Использование композиций, включающих изображения фрагментов плат и микросхем электронных устройств, а также их сочетание цветовыми полями и, возможно, с традиционным текстильным рисунком, создает предпосылки к появлению нового стиливого направления в оформлении тканей.*

The main criterion for evaluating textiles and drawings is novelty [1]. To date, a huge number of various textile drawings have been created. When working on a new drawing, designers usually think over its general concept, taking into account fashionable world trends, while almost always the level of technical development of society imposes its imprint [2, 3]. For example, during the last century, the textile drawing often reflected new technical achievements for that time period: steamships, airplanes, tractors, airships, etc., Figure 1.

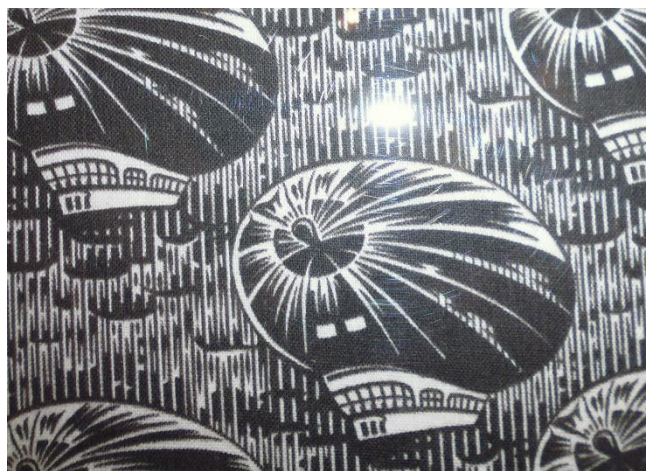


Figure 1 – Fragment of the "Zeppelin" fabric (artist A. Medvedev), 1930

Such drawings were in demand, as they showed the involvement of society in technical progress.

In the age of the digital economy, new knowledge and technologies are a priority, which can and should also be reflected in the textile drawing.

Back in the 70s and 80s of the twentieth century, when information technologies were just beginning to enter daily lives, and computers seemed something unusual, artists reflected these trends in their works. So, in one of the works (Figure 2), a combination of bright color fields of a quadrangular shape is presented as a kind of vision of information technologies of the future.

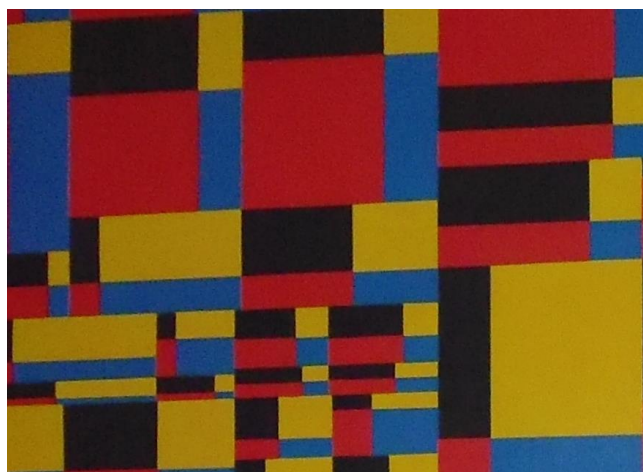


Figure 2 – Fragment of the painting "Computer series I, No. 1" (artist Y. Pamula), 1980

Note that such combinations of color fields could serve as the basis for creating a new textile pattern. At the same time, one of the motives for the design study of the drawing could be images of fragments of boards and chips of computers, mobile phones, and other electronic devices.

Below, as an example, a sketch of a textile drawing is presented, including images of fragments of computer boards, Figure 3.

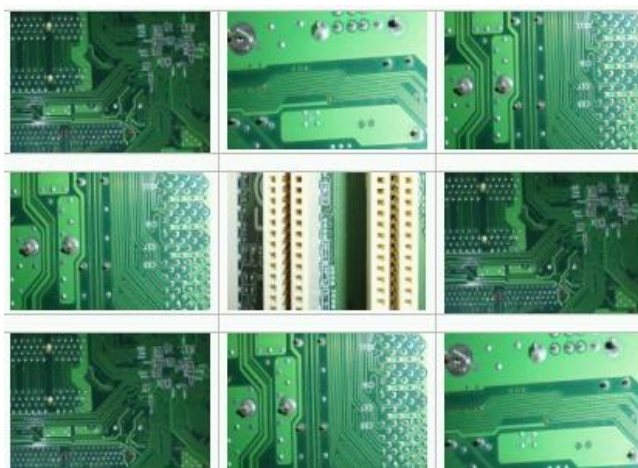


Figure 3 – Sketch of a textile drawing with the image of fragments of computer boards

Since it is known that the greatest interest in digital technologies is shown by young people, a survey was conducted (April 2021) of a group of young people (40 people) aged 16-17 years regarding the above sketch of a textile pattern. According to the results of the survey, it was revealed that 42.5 % of respondents rated the sketch of the drawing as interesting and would like to have clothes with such a pattern; 37.5 % of respondents positively assessed the drawing; and 20 % of young people did not show interest in the drawing. This fully corresponds to the desire of the majority of young people to demonstrate their familiarization with modern information technologies and technological progress. Therefore, there is reason to believe that fabrics with drawings, including images of fragments of circuit boards and microchips of electronic devices, may be in demand when sewing clothes for young people.

The use of such compositions, as well as their combination with color fields and, possibly, with a traditional textile pattern, creates prerequisites for the emergence of a new style direction in the design of fabrics.

#### References

1. Торебаев, Б. П. Возможность применения инновационных технологий в дизайне ткани и одежды / Б. П. Торебаев, Н. Е. Ботабаев, А. К. Бектурсунова, А. Е. Ботабаева // Известия вузов. Технология текстильной промышленности. – 2016. – № 3. – С. 186–190.
2. Крылов, М. И. Влияние политики, технологии и моды на изменения стилистики оформления текстиля на примере печатного рисунка / М. И. Крылов, Н. Г. Мизонова // Известия вузов. Технология текстильной промышленности. – 2016. – № 6. – С. 161–165.
3. Щепочкина, Ю. А. Анализ тканей с дополнительной информационной нагрузкой / Ю. А. Щепочкина // Известия вузов. Технология текстильной промышленности. – 2021. – № 2. – С. 151–153.