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## **MEANS OF PROVIDING THE FEELING OF SAFETY FLIGHT IN THE AIR TERMINAL INTERIOR DESIGN**

*It analysis development of air terminal complex design from 1920 year of twentieth century in to our time. Tendencis interior design the best airports in the world to specify modern means of providing safety of flight and organizing terminal space.*

The role of airports as the elements of air transport system in the country is steadily increasing. More and more people use airports each year.

Today, the best airports of the world are trying to attract the attention of passengers by providing them the most comfortable conditions of staying and to organize a range of services and facilities that may be responsible for high-quality leisure activities within the airport complex. All these facilities must be sustained in the general form of the terminal and meet the highest aesthetic and comfort level. This gives rise to greater development of design technology and constant evolution of the medium terminal.

Since the second half of XX th century carried out comprehensive studies of airports. Blokhin V., Komsy M., Piskov M., Chadayev A., K. Nigl and others explored the exterior and interior air terminals [1, 3, 5, 6]. The current state of science requires a systematic approach to the design of terminals and interior design knowledge of modern materials and technology. In particular, Knight P., Gubina N., Morzunova I. studied the problems of modern nanotechnology and nanomaterials [2, 4].

Purpose: determine the perception of modern means of providing feelings safety in the interior design of the terminal by analyzing the experience in interior designing airports.

The boundaries of the research interior design of terminals from 1920 year of twentieth century till 2012.

Creating interior design public buildings based on the following purposes:

- providing comfort,
- the creation of aesthetic impression,
- providing feedback corresponding status,
- the creation a definitely an artistic image.

Airport – is a "Face" of the country that welcomes a passenger from the aircraft. Design of the terminal must meet the latest trends provide comfort and aesthetic requirements for creating a positive impression and identify status.

Many successful examples of interior design terminals generally focused abroad in well developed countries. For example, Beijing international airport in China, the new terminal Heathrow in Great Britain, Canada, International Airport, the airport in Madrid (Spain), the Uruguay international airport, the airport in Shenzhen (China) and many others.

Research of foreign experience designing airports showed a tendency to create a unique image of the terminal facilities interior design (Table 1). Based on the rating "The best airports of the world" in 2011 by the authors of this report analysis. It showed that the status of the airport depends on the internal filling space next:

- modern systems and technology design;
- quality and originality of the interior;
- by the presence definitely an artistic image airport;
- providing a positive psycho-physical condition using medium color gamma;
- creation of an open organization and space decision;
- a plenty of rooms for different purposes that make the leisure time provided by passengers during flight delays, etc.

**Table analysis of special complete sets that show the status of the best airports in the world**

The best airports of the world	Special complete															
	Internet cafe	Restaurant	Business centre	Sport centre	Pool, sauna SPA	Children's room	Excursions	Museum	Moving on electric cars	Gardens	Golf field	Casino	Disco club	Bowling	Rest rooms	Artist studio
Narita (Tokio)	+	+	+	+	+	+	+	+	+	+	-	-	-	-	+	-
Changi (Singapore)	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-
Franz – Josef –Straus (Munich)	+	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-
Shiphol (Amsterdam)	+	+	+	+	+	+	+	-	-	-	-	+	-	-	-	-
Harstfield (Atlanta)	+	+	+	+	-	+	+		+	-	-	-	-	-	-	-
Kingsford Smith (Sydney)	+	+	+	+	+	-	-	+	-	-	-	-	-	-	-	-
Frankfurt (And Frankfurt am Main)	+	+	+	-	-	-	-	-	-	-	-	-	+	+	+	-
Inchon (Seoul)	+	+	+	-	+	-	-	-	-	-	-	-	-	-	-	-

In designing the interior terminal important element is a providing the psychological state of the passenger before departure. That's why, airport interiors should be easy to read, filled with light and dynamics, modern equipment and technology.

Analysis of the artistic image, created by the design of the airport generally, shows the use of global and national characteristics in the design. Analysis Patalaha N. essentially globalization principle design showed the presence of dynamic and light elements in the interior, such as wall solar beam, cloud. These art images help you tune into flight.

National principle used differently in each country. Uses the well-known features that characterize this country. For example, the stylized images of world famous paintings of the great Dutch master in black and white picture on the walls of a cafe uniquely identify terminal in Amsterdam. You can read the overall concept of the Dragon at the Beijing airport. That is the modern means to provide safety flight perception in the interior design of the terminal in the context of the artistic image, that shows two trends. One trend focuses on the challenge to the desire of flight, the other - to divert from the flight.

New technologies are important in designing of terminal. Their use allows you to enhance and enrich the range of additional visual and functional effects. To provide a high level of interior design airport is appropriate use of technologies of the XXI century:

- nanotechnologies and nanomaterials in the decoration of the room surfaces (with antibacterial and self-cleaning properties);
- technology computer design and digital programming of machines, that can help create unstandard form in filling of interior;
- technology of casting furniture under high pressure of modern materials (such as magnesium, fiberglass, plastics);
- hologram projection image;
- the use of robotic interior filling;
- the use of systems objects transformation of furniture in the interior;
- use new features of modern lighting, such as compact RGB lights.

Development of new materials always promotes new shaping in design. Design concept of the XXI century is to find new forms and new aesthetics. In the last decade the shape of objects innovative design becomes more simple and concise. Formed process of interaction between new materials and the desire of designers to implement ideas. Use of technology casting of polymer materials, plastic, makes it possible to get organic forms that the greatest degree corresponding to the morphology of the human body. This provides a comfortable tactile feeling using a furniture that is so necessary at the airport. Support for rapid development of new materials and technologies provides creative design work, which pushes scientists and engineers to find new ways to implement their creative projects and ideas. Hologram projection images can be situational information, tied to the flight, for example - scoreboard and information - travel, for example - the projection of Kiev-Pechersk Lavra or Sofia in Kiev.

Today there is a problem in using transforming design objects that can open new possibilities in design planning space for stays of many people. Developments so-called "Transformers" provide economical and efficient use of floor space, especially at the terminals. The authors of the report, identified options for design object in airports interior that are transformed (fig. 1).

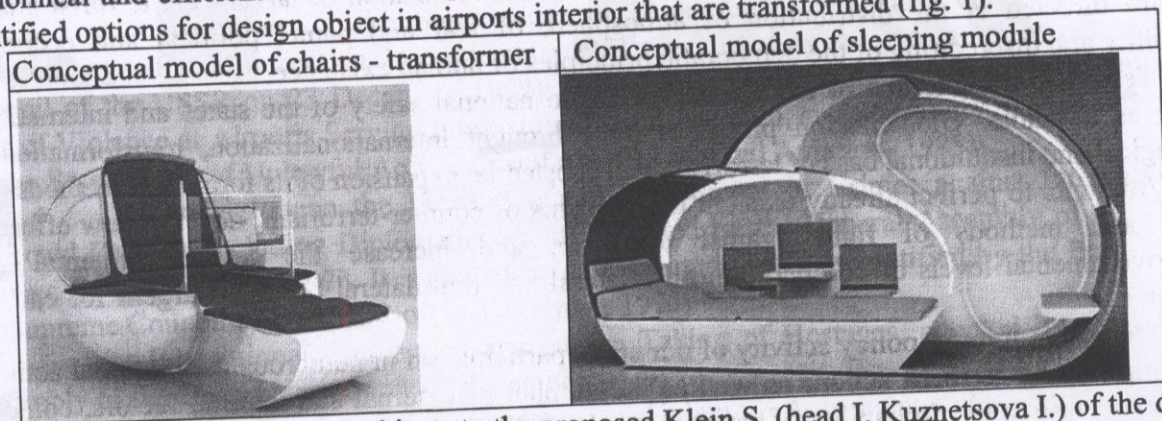


Fig. 1 - Transformable design objects to the proposed Klein S. (head I. Kuznetsova I.) of the draft airport in Yalta

No less important is the issue of lighting. Lighting terminal should be clear so the person wanted to hover above the ground. In addition, with the help of lighting can be improved airport zoning area.

### Conclusions

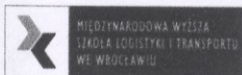
1. Analysis of the decoration and additional rooms (theaters, business centers and so on) and the «vip» rest rooms showed that the detection status of the airport depends on the use of the latest systems and technologies and provide maximum comfort at the airport.
2. Determined the feasibility of using new systems in the planning airports interior design, such as nanotechnology, technology, molding and furniture finishes, hologram service, intelligent systems, robotic filling the interior, using new features of modern lighting.
3. Special attention in the design of interior air terminals should be given transformation of systems design - objects.
4. Artistic image of the terminal interior for providing the feeling of safety flight, regardless of national or globalization characteristic determined by two modern trends. To providing the feeling of flight safety in the perception of interior design, one tendency focuses on a creating desire to flight and the other - a intellectual distraction from the flight.

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## THE FIFTH WORLD CONGRESS "AVIATION IN THE XXI-st CENTURY"

### "Safety in Aviation and Space Technologies"

Volume 3

September 25-27, 2012  
Kyiv, Ukraine



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KYIV 2012