

Intelligent module assembly type decoration trend analysis

Xiaojin Jia

Zhejiang Aohua Electric Co., Ltd., Jiaxing. 314011, China.

xiaojin12@sina.com

Abstract

Based on modular product finished form, the user terminal assembly combination, metope, ground, top of the storage cabinet put oneself in another's position, the overall smallpox, lighting intelligent control system of new interior wall decoration pattern will become the trend of environmental protection concept, will be greatly shorten decorate period, reduce waste and improve decorate of environmental protection, improve the living environment.

Keywords

Modularization; Assembly; Decorate; material.

1. Introduction

According to those who make by ministry of construction of People's Republic of China "commodity residence decorates reach the designated position to carry out guideline" requirement, fine decorates the residence before handing in building key, the fixed face of all functional space is installed completely or stuccoed finish, the basic equipment of kitchen and toilet is installed complete completely. Urbanization, characterized by overall planning between urban and rural areas, integration of urban and rural areas, industrial interaction, economy and intensiveness, ecological livability and harmonious development, is an urbanization featuring coordinated development and mutual promotion of large, medium and small cities, small towns and new rural communities. It is the urbanization with the largest population in the world, and it is the sure direction of China's social development. 40 years of reform and development is a stage of rapid urbanization. As time goes by, old houses will be replaced by new ones and old houses will be renovated, which has also become a strong demand for social development.

Traditional family decorates flow complex, decorate material kind each fight for oneself, ceramic tile, floor, wall paper, wooden door to wait true and false is hard to distinguish, decorate construction period to spend time long, general owner decorates for the family to expend a lot of energy, and do not achieve anticipated target certainly.

Decorate a style to the evolution of is also a cultural evolution, from the extreme popularity of Europe type style, developed flowers decorates a style, the return of the cognition of traditional culture resurgence of new Chinese style, 85 s and 90 s become a mainstream consumer groups, users to evolve into the minimalist light much wind, younger and younger consumers more hope one-stop decoration solution, don't waste a lot of time and energy on the trivial things that decorate.

With the development of the industrial manufacturing industry and the improvement of education level, more young groups rarely contact with the mud and water, carpentry and other industries in the decoration, and more jobs are distributed in the industrial assembly lines, workshops and urban office buildings and offices.

2. Environmental awareness is a broad philosophical concept

It is the level and degree of people's awareness of the environment and environmental protection. It is also the promotion of people's awareness of environmental protection and the increasingly perfect national environmental policies in order to constantly adjust their economic activities and social behaviors to protect the environment. Household decoration process will produce construction decoration waste and loss, and decoration materials technology and their material reasons, with a large number of adhesive and coating materials, after the completion of the decoration will produce toxic and harmful gas, more users will be in the decoration after the completion of ventilation idle for a period of time.

The transformation of decoration mode will also lead to the adjustment of the industrial chain in the front section. A large number of new building materials enterprises will shift from the production of single type of materials to or integrate into finished decorative materials, electrical categories, and home products. The transformation of decoration mode will also bring great business opportunities.

3. New decoration products and modes of intelligent modular assembly will be rapidly applied and popularized in the boutique hotel industry

Hotels and hostels, as the extension of daily life and family living, are very important places in life and the embodiment of enjoying a good life. Because the hotel is the place that "out-of-touch", no kitchen, dining-room space, space decorate relatively simple and feasible, the hotel as a commercial space at the same time, the operator more consider operation cost and investment returns, to decorating the shorter time limit for a project requirements, strict control of the overall cost, higher request to the overall effect. And participate in market competition, repeat the frequency of decoration will be higher. The improvement of the solution of new decoration products with intelligent modular assembly will take the lead in the hotel industry, as shown in figure 1 and 2.

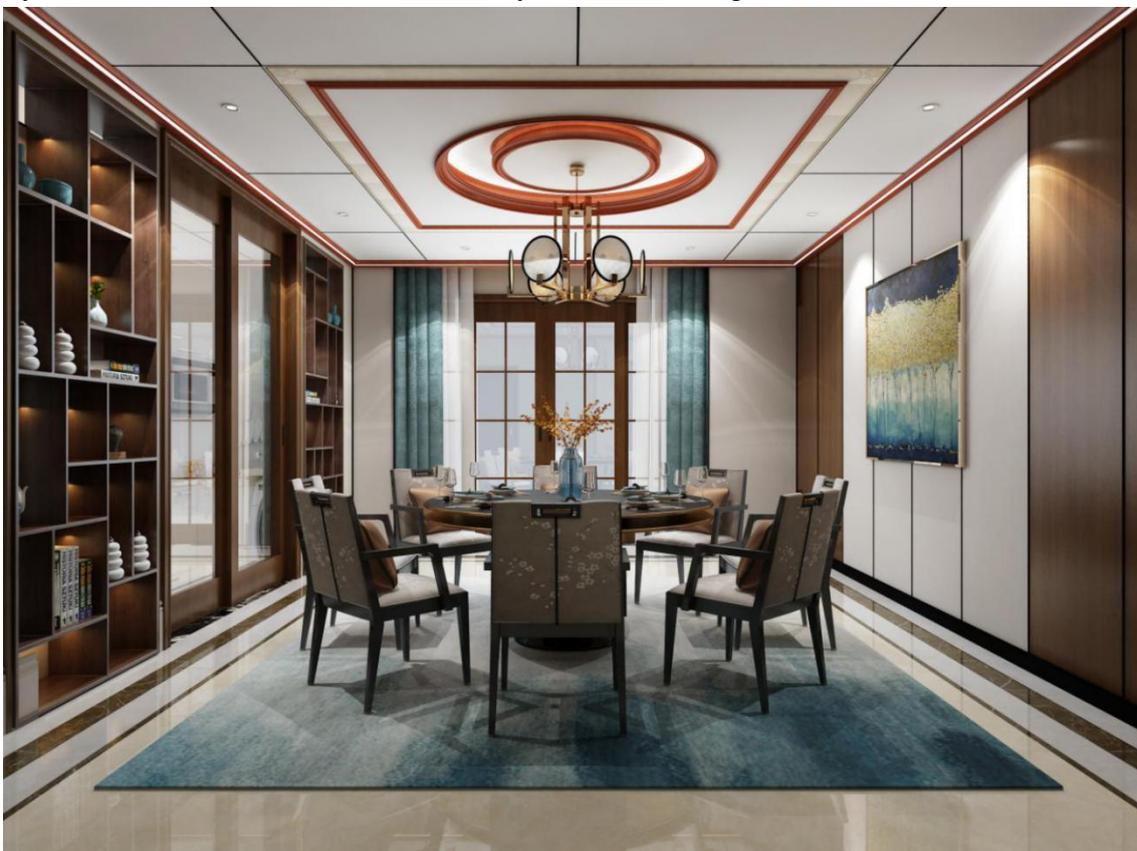


Figure 1 Hotel intelligent module assembly type new decoration products



Figure 2 Improvement of the hotel solution

4. Intelligent module assembly type new decoration products are easy to implement at home

Intelligent modular assembly-type new decoration products in the home "small space" scene type solution is easier to implement "intelligent balcony", "understand your bathroom", "new wind kitchen" and other scene assembly-type products will appear and popular.

Balcony, of the family is the most close to nature, in the home environment is a lot of families for drying clothes, entertainment or place the space of article, can have a view of the balcony is the pursuit of a lot of buyers, the balcony scene model is the embodiment of the living conditions and quality of life, intelligence, the balcony scene type product is build and the way of life of life scenes, intelligent present form of the balcony can be divided into two kinds: life leisure balcony and intelligent life balcony. Recreational balcony basically solves the ecological change of the environment to decorate, decorate, ark put oneself in another's position to receive the construction of the system and green plant to act the role of article collocation; Intelligent life balcony is the balcony electrification, intelligent comprehensive solution, the system to solve the balcony clothes cleaning, drying, clothes and cleaning appliances storage system; Balcony lighting system, sound system balcony, the balcony air curing system, security system, the balcony balcony light energy storage and surrounding the balcony area of the center for electrification of product development, integration of the balcony scene products will become an important constitute part of the household electrical products, and even beyond the existence of video class electrical appliances product status, become a new category, live healthy consumption is intelligent module of the fusion of prefabricated building materials and electrical and build life scenes, guide the life of the product, as shown in figure 3, 4.



Figure 3 Products that create life scenes and guide life

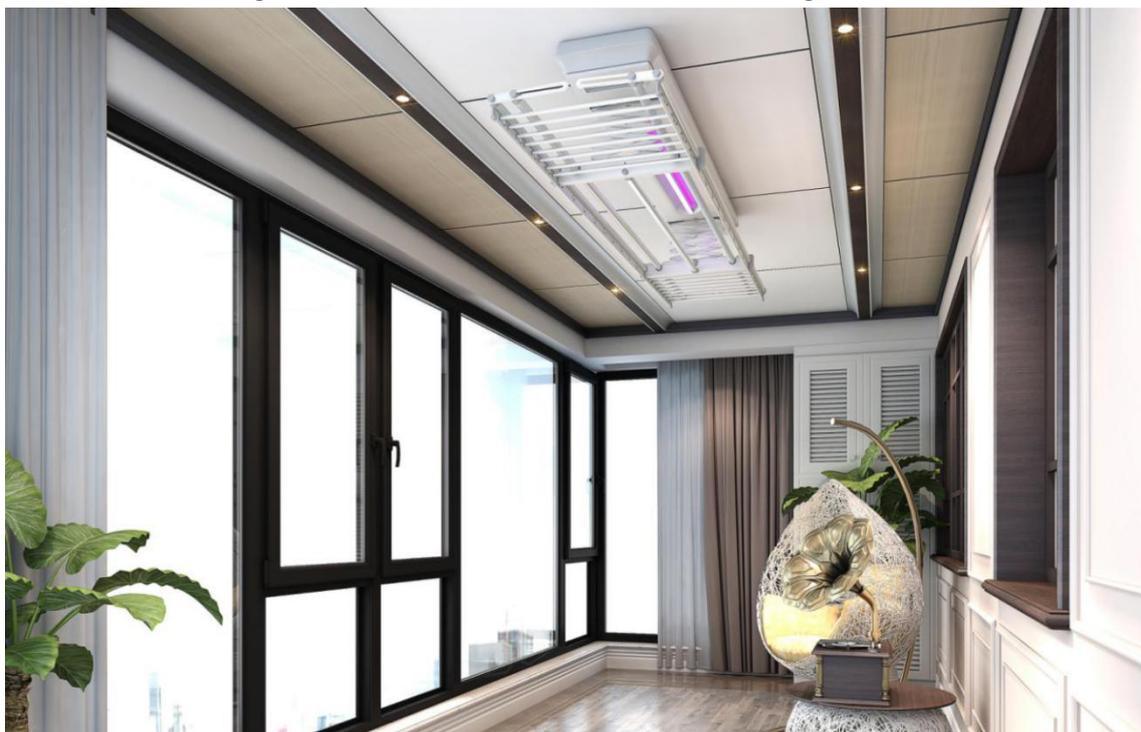


Figure 4 Fusion of intelligent modular fabricated building materials and electrical appliances

Toilet is essential in family life and use frequency is very high, also with concealment and security are needed, in the family is the exclusive space in the family, is involved in a family to decorate fully functional space, which includes a bath of light, warm, wind system, wash Su birdbath, ark, the mirror system, and implement and receive, hanging, drying, and many other functions. The emergence of new modular assembly products will be their own independent product integration. Each system with the production platform and supply chain system will have the opportunity to turn each unit product into a part of the overall function, let the function of the toilet trend to the overall intelligent. Envisage life scene, integral toilet also is the place of dip bath of screen of a video voice, can bubble catch up with drama in bath crock, also can let the scenery of the whole world accompany you to rain together. Now is the era of high-speed development of information and super convenience of shopping. Tap your finger in the bathroom to complete shopping and information experience. Automatic completion

of requirements between gestures and feet, to realize the true intelligence of moistening things silently, so that the private space in the family can better understand life, more comfortable and convenient, as shown in figure 5.



Figure 5 Comfort and convenience

Intelligent modules assembled new product using the kitchen space decorate and receive of ambry, wash cutting function, the basis of complete cabinet put oneself in another's position and the phase of metope act the role of function demand, and then to the kitchen environment improvement and improve, the kitchen is a family work space, is going to stay a long time and work environment, but also has a gas stove in the kitchen environment, under launch condition consume oxygen and produce quantity of heat, smoke and steam; Of eat hutch garbage smell will be released to the environment and even bacteria, intelligent modules assembled new hard outfit building materials decoration product is fusion and electric products, through the idea of life scenes, and integrated solutions and execution, the improvement of the kitchen air environment is the pursuit of health, is improving the quality of the life, and the fresh air in the whole kitchen life scenes as the idea, is through the adornment is decorated in the process of solving and complete. The kitchen that intelligence assembles is designed, what can distinguish a kitchen effectively "Tibet" and "dew", open mode kitchen and sitting room are linked together, so the sitting room can see a kitchen directly, because this can collect partial kitchen appliance and electric equipment in cabinet. For instance freezer and disinfect cupboard use door of one ambry same color to keep out, open the door is hutch electric, close the door is integral style, as shown in picture 6.



Figure 6 Refrigerator and sterilized cupboard are the same color

Ascend a hall to enter a room, decompose those who change assemble type to decorate will be in household big space decorate in shine brilliantly, lead household to decorate agitation.

Living room, study and bedroom space environment is a large space in the home, but also the overall decoration of the basic style reflects, intelligent module assembly type new decoration products are factory scale production, on-site measurement customized construction into a product form process. The application process of products is a gradual process with the maturity of the industrial chain. Products can be made from the TV setting wall of the sitting room, the bed of the bedroom background, formation product forms, such as aisle walls by the local use of space, gradually into the wall of the room, roof, wall, ground, and receive a space such as indoor household cabinet put oneself in another's position in the process of whole house lighting and control system is bound to fusion products, fresh air to air purification products, such as through space, make the product integration construction, industrial upgrading.

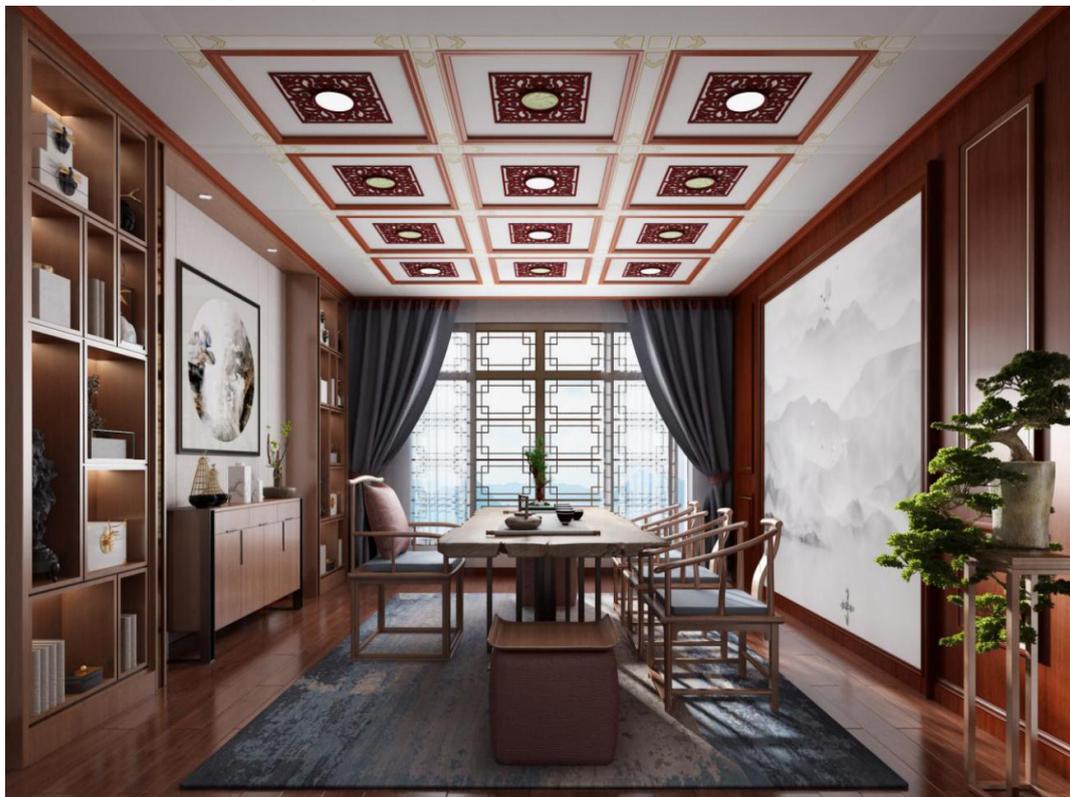


Figure 7 Fresh air purification



Figure 8 Spatial scene construction enables product fusion

5. Conclusion

Intelligent module assembly type new decoration, let the decoration become predictable, simple and environmental protection, at any time in life can be carried out interior decoration upgrade transformation, life is dynamic change, let the space of the home with the life to grow together.

References

- [1]Sheng buyun, fang zhenqiang, Yin xiyan, xiao zheng, cheng liqun. Research on intelligent assembly method based on generalized modular product family [J]. Integrated machine tool and automatic processing technology,2016(12):117-120.
- [2]Zhang xiaobing. Development of large assembly intelligent CAD system and research on model lightweight technology [D]. Shanghai jiaotong university,2011.
- [3]Shan quan, lei yi, yan guangrong. Intelligent assembly design based on modular product family [J]. Journal of engineering graphics,2009,30(01):1-5.
- [4]The first intelligent power module without welding assembly can drive up to 15kW motor [J]. Inverter world,2008(10):120.
- [5]Shan quan, yu sijia, lei yi, yan guangrong. Research on modular intelligent assembly design [J]. Integrated machine tool and automatic processing technology,2005(11):5-7.
- [6]Bi dongmei. Modular intelligent monitoring system in automatic assembly of threaded pair [J]. Modular machine tool and automatic processing technology,2002(05):38-39.