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Abstract

Seeking the high quality of living standard has formed a fashion about multiple taste and style in these days. In the competitive, in order to increase competition product development not only must have graceful shape and high quality to satisfy customers’ demand but also must save cost and time. The impact on the design process makes the procedure of traditional design insufficient for changeable product environment. Therefore, I draw up the procedure of a concurrent design about a shaped shelves for plant-showing. At the beginning, I apply image-map analysis and various product-analysis skills and then I am engaged in product analysis and market investigation. Through these methods, I find some entrances to markets and some problems in existing products. According to these results, I build a systematic objectives tree. Also, I use FSM method, STM method to develop a plan about shape and use PUGH method concept choice to choose the first evaluation. In accordance with the results, I use DFA to deal with detail structure design. Finally, I choose a useful method to make the last evaluation by using DFA analyst software.

In the study, the designer tries to design an extremely different machine which can catch people’s eye easily. Though the structures or forms in drawers are a little different, there is no use in promoting quality. By the study in building a model of design procedure, we can promote the quality of product design efficiently to reduce the time in design and lower cost. Similarly, we can clarify the whole examining procedure and set up the standard of product design.

Keywords: shelves for plants, product design, concurrent engineering