A Study on The Application of Wood Grain by Wooden Sawing
-Focusing on The Surface of Furniture Decoration-

Park, Byung Ho · Hong, Sang Hee
Professor, Dept. of Interior Furniture Design, Design College, Kangwon National University
Professor, Dept. of Industrial Design, Design College, Kangwon National University

*Corresponding author : Hong, Sang Hee, Dept. of Industrial Design, College of Design, Kangwon National University Tel : 010-4644-6634 E-mail : magnum0915@kangwon.ac.kr

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Abstract

Wood and its materials which are used as main materials for making modern furniture are organized by cylinder form, so natural figure and grain appeared on the surface are expressed by various forms according to the sawing methods. For the sawing methods of wood, quarter sawing and flat sawing have been applied traditionally, but the sawing methods of new form are requested for obtaining effective board and appearance of excellent wood figure and grain while the demand of wood is gradually expanded.

The purposes of this study are to study and develop several sawing methods which can be applied beside the traditional sawing method by the necessity, develop the pattern so that unique wood grain and figure can be applied scientifically and rationally and apply them to develop the design of modern furniture in the aspect of wood's using value.

For the method of this study, 7 applied sawing methods including the existing quarter sawing and flat sawing should be drawn to the optimal status of various wood grains and figures through the experiment. And, it is for the efficiency of applying surface treatment of modern furniture's design. The range of studying is to study the appearance of wood figures and grains created when cutting hardwood and sawing it with several methods and apply it to furniture design.

After making samples through the actual experiment of wood grains and figures appeared by quarter sawing, flat sawing and applied sawing, this study considered how they can be applied to the surface of furniture based on them so that the sawing finally can suggest newly wood using aspect, figures and grains the most ideally. Therefore, based on the results, wood's organic and various patterns can be created by the arrange of various formed figures and grains and it is judged that they can be applied as the most important factors of furniture design's process such as idea, unfolding and completion.

The above results of study can suggest the direction of industrial furniture which has the same way as the recent eco-friendly and natural regression phenomenon. Therefore, this study is on wood color, order and physical characteristics such as strength, hardness, hygroscopicity, surface roughness, etc. besides wood figures and grains which are important factors of wood's aesthetic characteristics as the following study applying the analysis of wood figures to modern furniture design in the previous study so that we can find the measures which can make advanced results of studying of modern furniture's design which shows more concrete and rational characteristics.

국문초록

현대가구 제작의 주제료로 이용되고 있는 목재 및 목질재료는 원통형으로 구성되어있어 이를 재제하는 방법에 따라 표면에 나타나는 원형적인 문양과 목리가 매우 다양한 형상으로 표현된다. 목재를 재제하는 방법은 전통적으로 직목재제법과 판목재제법이 활용되어 왔으나 목재의 수요가 점진적으로 확대되면서 효율적 인 관재의 취득과 비교적 문양과 목리의 출현을 위해