

受験番号 : 26IPM007

問 1

【 0 0 0 9 】

Accordingly, in order to develop a napped pile fabric that does not cause grinning even when it is extended in a folded state or along a complex form, the inventor conceived an idea of using a polyurethane elastic yarn as a warp and weft yarn that constitute a ground weave of the napped pile fabric of a moquette or the like to provide elasticity to the ground weave, and tested this idea. Although the obtained fabric can prevent grinning to a certain extent due to its superior elasticity, it lacked balance when it was elongated in the warp and weft directions. It was found that before attaching the fabric, unevenness or warping emerged on its surface, which resulted in problems such as reduction of productivity due to the unevenness or warping when cutting or sewing, or poor appearance due to unevenness remaining in the fabric surface even after the extension of the fabric. The superior elasticity of the ground weave also made it difficult to control the pile while weaving, and defects such as uneven cuts of the pile was seen while severing the fabric into a double-pile fabric.

問 2

[0042]

In such a state, when the cutting edge 33 of the carving knife 31 is brought even closer to the object being carved 38, the reactive force from the object being carved 38 causes the loop portion 18, which is formed from a soft synthetic resin, to deform in the direction of the arrow, as illustrated in (2) of Fig. 11. Such deformation of the loop portion 18 allows the cutting edge 33 of the carving knife 31 to contact the object being carved 38 to form a desired carved groove. As the cutting edge 33 of the carving knife 31 is pushed even further, a lower surface of the tip 20 of the loop portion 18 slides over the object being carved 38 along with the movement of the cutting edge 33, while contacting the upper surface of the object being carved 38. In this embodiment, the top view shows that there is nothing that covers the tip of the cutting edge 33, which indicates that the carving knife cover 16 does not prevent the usage of the tip of the cutting edge 33.

[0043]

Accordingly, the tip 20 of the carving knife cover 16 is always in front of the cutting edge 33 when the carving knife 31 is being used. Even when the carving knife 31 is carelessly pushed forward when a left hand 44 is in front of the cutting edge 33, the left hand contacts only the tip 20 and does not directly contact the cutting edge 33. The reactive force to the tip 20 caused by such contact with the left hand 44 is transmitted to the end surface of the carving knife 31 through the body 17, as in the first embodiment, which stably prevents further protrusion of the carving knife 31.

訳者注：提供された図面だけでは、ループ部の先端部と彫刻カバーの先端部が同じものを指しているか判断がつかなかったため、段落 0043 の 1 行目、4 行目、5 行目の “the tip 20” の参照番号 20 が誤りであることも考えられますが、本訳文ではそのままにしておきました。

問 3

1. A link device of a sliding door, characterized in that

an opening portion (2) in front of a housing (1) is openable with three doors, a left door (4), an intermediate door (6), and a right door (5), which overlaps each other in front and back, installed movably in a right and left direction, and at the same time, a pair of left and right link bars (8, 9) has edges movably coupled to rear surfaces of the left and right door, and other edges movably coupled to a rear surface of the intermediate door (6), and to an interlocking member (10) provided vertically movable so as to be guided by a guide rail (17) along a vertical direction, which allows a synchronized movement of the doors when opening and closing the doors, wherein differentiating an angle between one link shaft of the link bar and a guide shaft of the guide rail and an angle between another link shaft of the link bar and the guide shaft of the guide rail causes a relative moving distance of the left door (4) to the intermediate door (6) and a relative moving distance of the right door (5) to the intermediate door (6) to be different.