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Number of Possible Weave Patterns Increased by Introducing Long-Eye Heald

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Abstract: Woven fabric consists of two sets of yarn, called the warp and the weft. Warp yarn movements in the process of weaving cloth produce the yarn interlacement pattern. The number of patterns of warp yarn movements and thus the number of possible weave patterns depend on the number of heald frames that the loom is equipped with. If we introduce long-eye healds into a dobby loom, the number of possible weave patterns increases. In this paper, we show that the number of possible weave patterns is roughly doubled when the long-eye healds are introduced.

Key Words: [Long-eye heald](#), [Enumeration](#), [Dobby loom](#)


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