

Knee and Joint Support Strap from Banana Fiber

1. Assistance Prof. Chanakarn Ruangnarong 2. Associate Professor Sakorn Chonsakorn, Ph.D. 3. Assistant Professor Supanicha Srivorradatpaisan, Ph.D. 4. Assistant Professor Natthapong Panyathikun
5. Miss Pairin Tiengpadung 6. Miss Pornnapa Boonyapan 7. Mrs.Suttita Sawanaporn 8. Mr.Kasidit Rattanaporn 9. Miss Sophaphan Sorhasan
chanakarn@rmutt.ac.th

This work was an extension of the production process of banana fiber fabric and developed by mixing banana fiber with elastic plastic to make "Knee and Joint Support Strap from Banana Fiber". The main component is natural fiber, good breathability suitable for hot weather, helps to support the knees and joint, absorb from impact injury around the knees, and reduce pain and injury caused by impacts.

Novelty of works

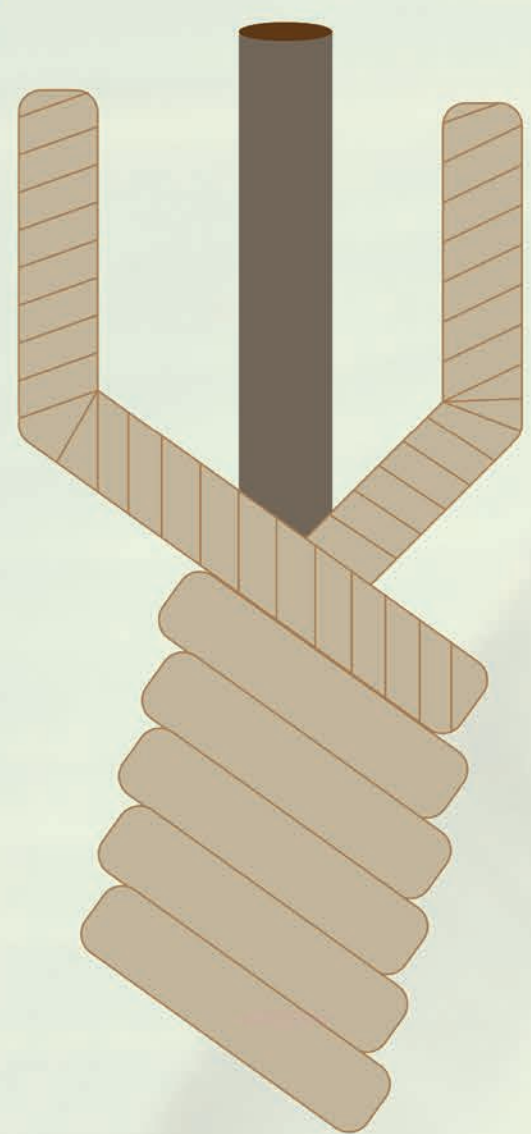
Knee and joint support fabric made from banana fibers



Technology/working process/experimental results/experimental results

The experimental production process of yarn made from banana fiber and elastic plastic is suitable for making knee support fabrics with good elasticity.

Elastic provides flexibility



Banana Fibers Yarns

Banana Fibers Yarns

Flexible banana fiber yarn prototype



Flexible banana fiber yarn prototype

The Application and Value of the Invention

The prototype product can be developed into an industrial system and added with other special functions according to the needs of consumers. It uses natural fiber, which is breathable and won't overheat. Or feel uncomfortable when using products that are easy to clean.

Patent

Improving the quality of banana fibers to be soft

