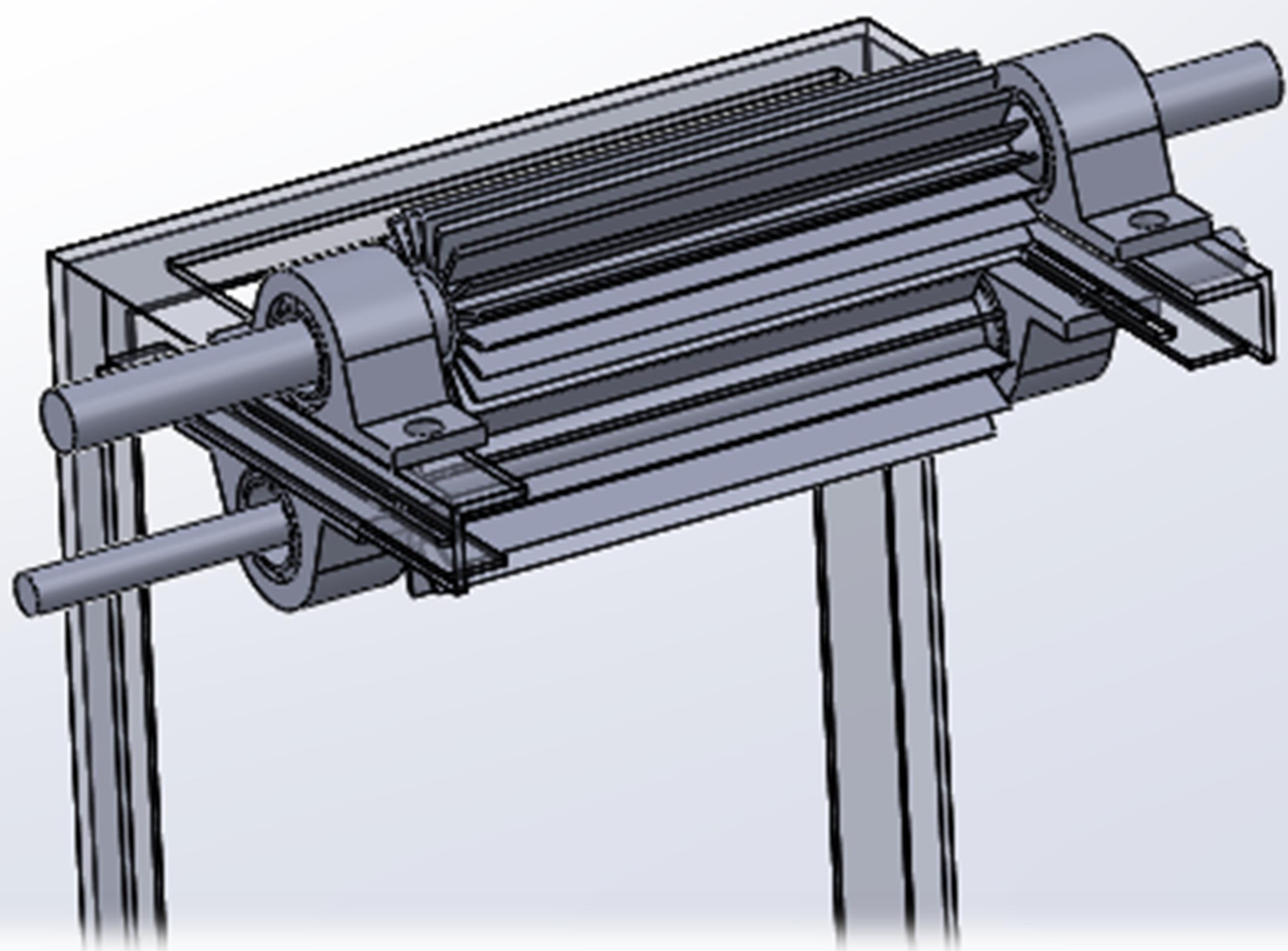


Rotating Blade for Natural Fiber Extraction Machine

IPR (PATENT) NO. PI 2019005430



Fine individual fiber had more strength

INTRODUCTION OF TECHNOLOGY

To achieve the objectives, there are two area of interest in this design where first is on the number of blade and second is on the angle at blade's tip.

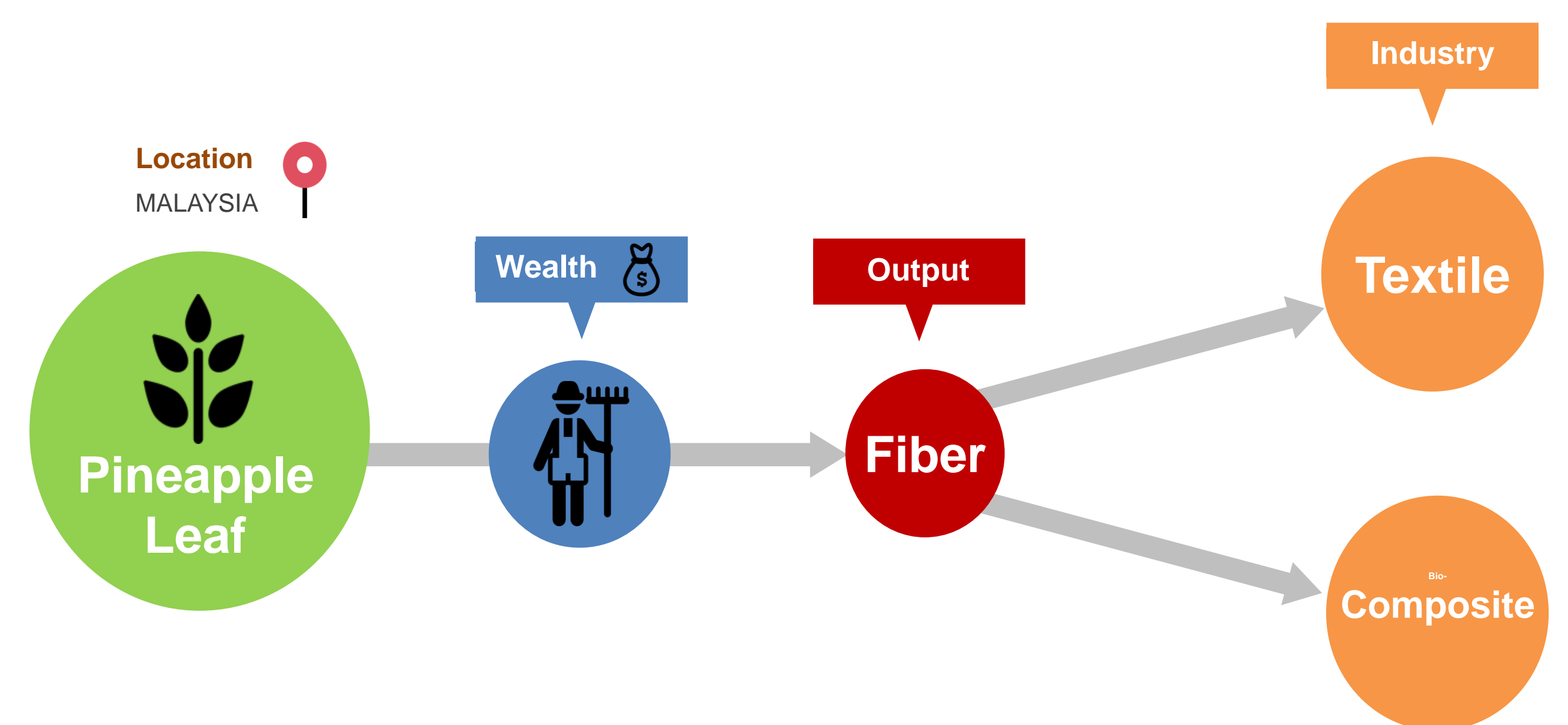
Besides that, the machine had no complex mechanical mechanism which eventually reduces greatly it's fabrication cost. To achieve the objectives, there are two area of interest in this design where first is on the **number of blade** and second is on the **angle at blade's tip**.

Besides that, the machine had **no complex mechanical mechanism** which eventually reduces greatly it's fabrication cost.

A rotating blade apparatus is to extract natural fiber product from such as pineapple leaf.

Industry application

Agriculture & Textile



METRO NEWS
Tuesday, 25 Sep 2018

With him are Johor Corporation president Datuk Kamaruzzaman Abu Kasim (second from right) and ministry secretary-general Datuk Mohd Sallehuddin Hassan. — Bernama



JOHOR BARU: Malaysia will need at least another 3,000ha of land to grow MD2 pineapples in order to meet the demand of domestic and overseas markets.

Agriculture and Agro-based Industries Minister Datuk Salahuddin Ayub said currently there was only 2,000ha of land in the country used for the purpose of growing pineapples, majority of which was in Johor.

By: Mohd Farhan Shah

Source: <https://www.metronews.com.my/metro/metro-news/2018/09/25/more-land-needed-for-pineapple-plantation-a-total-of-3000ha-needed-to-grow-the-fruit-now-exported/>

Malaysia listed in top 20 countries for the pineapple plantation areas; produces 335,725 MT pineapple

MARKET POTENTIAL

There are 3,062 pineapple estates in Malaysia (2012) and 16,850 acre of plantations (2010), producing 416,00 tonne metric fruits. Malaysia is 9th world exporter. Pineapples grow best on peat soil (like in Malaysia) which requires manual handling tools. Globally, Costa Rica, Thailand and Philippines, Indonesia, Kenya, Brazil, Ivory Coast, South Africa, India, Taiwan and Australia are also pineapple producers. Some of these countries still uses manual tool.



Project Leader : Prof. Ir. Dr. Ts Mohamed Thariq Bin Hameed Sultan
Institute of Tropical Forestry and Forest Products (INTROP)
+603-9769 6396
thariq@upm.edu.my
Area of Interest :
Structural Health Monitoring (SHM), Damage Detections and Repairs
Low And High Velocity Impact Studies , Composite Materials