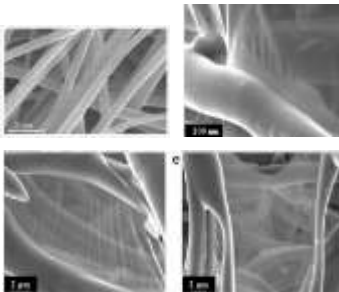




Carbon fibers have become very popular in a variety of fields, however, the prevailing production processes for such fibers are still very expensive.

This work demonstrates a facile, cost effective and scalable process to produce fine carbon fibers with enhanced electrical and thermo-physical properties. The developed process allows for development of carbon fiber, yarns, and nonwoven carbon fiber cloths, includes forming suitable polymeric precursor microfibers and/or nanofibers using a centrifugal spinning process and decomposing at least a portion of the polymeric precursor fibers to form carbon fibers. The obtained properties are highly promising for industrial uses.

This invention presents a method of preparing carbon fibers, yarns, and non-woven carbon cloths from low-cost starting materials without the need for high temperatures or transition metal catalysts. This invention uses Forcespinning® technology.



(image source: inventor)

For further information regarding this Technology please contact:

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Method of Preparing Carbon Fibers

Competitive Advantages

- Uses low-cost precursors
- No need for high temperatures or transition metal catalysts
- Re-purposing of proven Forcespinning® technology
- Adjustable (micro-to-nano) and hybrid carbon fibers production from a single set-up

Commercial Applications

- Scalable production
- Low set-up cost
- Alternate industrial method for producing carbon fibers
- Custom-made production facility

IP Status

- US Patent #[9988271](#)
- Licensing available

Status of Development

- Seeking commercial partners

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