

Conversion of Ultra High Performance Carbon Fiber

Disclosure Number

200902323

Technology Summary

Disclosed invention addresses design of building block approaches with several technologies working together to produce an ultra-high performance carbon fiber. Today the properties of best carbon fiber that is available in market are in the range of 920 ksi strength, 45 Msi modulus, and 1.5% ultimate elongation. The claimed technology will produce carbon fiber that has two-fold performance in comparison to the available carbon fibers. The technologies include processing of ultra-fine filament diameter, methods to minimize flaw sizes in the fiber.

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