

Cortex Composites, Inc.  
 Press Release September 1<sup>st</sup>, 2020

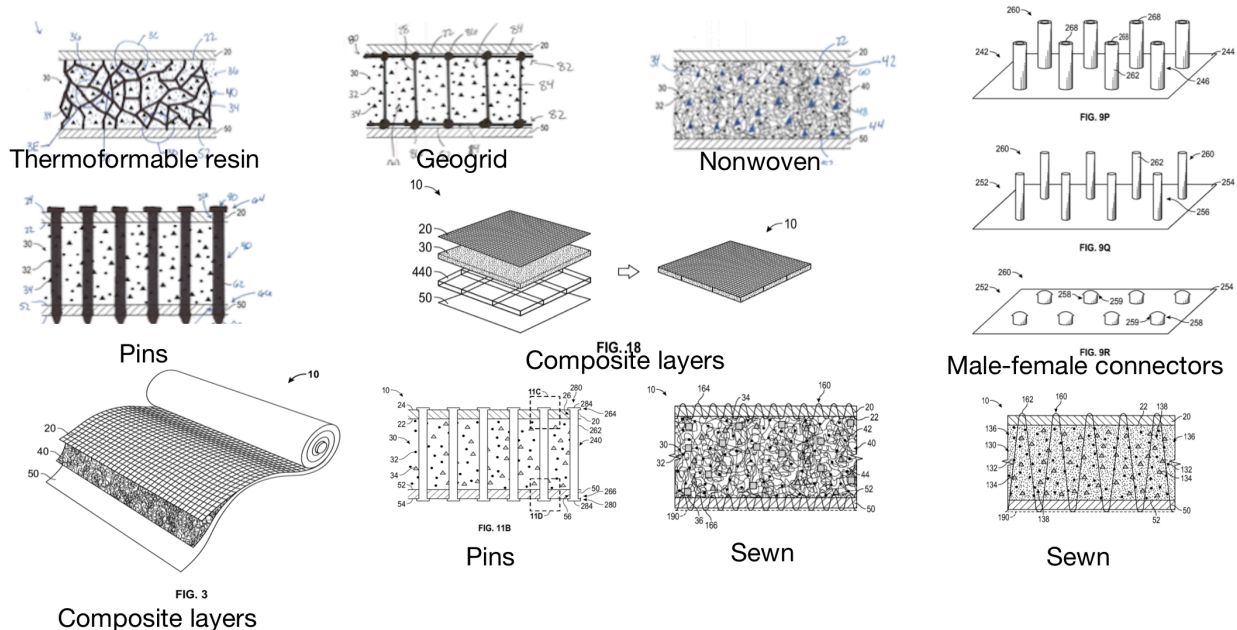
## Cortex Composites Announces Over 30 Granted Patents on its 'Concrete on a Roll' GCCM

Cortex Composites, Inc. (<https://www.cortexcomposites.com/>) is a venture-capital backed startup that holds a wide range of patents in the Geosynthetic Cementitious Composite Mats (GCCM) space.

The company's backers include Draper Associates (<https://draper.vc/>) and Foley Ventures (<https://www.foleyventures.com/>) as well as numerous private investors.

The company has engaged in a multi-million dollar research and development program that has yielded a wide range of intellectual property in GCCMs including over 30 granted patents and over 65 filed patents. This research was performed at Cortex Composites' headquarters in Los Angeles, CA, at Arizona State University, and Tourney Consulting Group a consulting engineering company focusing on quantifying concrete durability and developing cost-effective, service-life solutions for concrete structures.

Cortex has designed and filed patents on many different proprietary GCCM products which it developed, in particular GCCMs of connected layers with: nonwovens, staples, pins, geogrids, thermoformable resin, male-female connection pins, blocks with water conduits, connection wires, sewing, adhesive injected elements, etc. (as shown schematically in the diagrams below).



While competitors such as Concrete Canvas (UK) focus only on one attachment method of the two layers using a spacer fabric using two layers woven together with an elastic element, Cortex Composites' extensive patent portfolio focuses on a much broader range of methods of attaching two layers together to encapsulate a cement powder between them and still maintaining a flexible material. The plurality of layer attachment methods conveys important functional benefits allowing for a much broader range of cost effective and high performance GCCM products.

The new GCCM materials have been filed and protected in the granted and pending patents recently published below:

**US Patent 10,167,635 (January 2019)**

- <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=%2Fnetahhtml%2FPTO%2Fsearch-adv.htm&r=1&f=G&l=50&d=PTXT&p=1&S1=10,167,635&OS=10,167,635&RS=10,167,635>

**US Patent 10,435,859 (October 2019)**

- <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetahhtml%2FPTO%2Fsearch-bool.html&r=1&f=G&l=50&co1=AND&d=PTXT&s1=%22cortex+composites%22&OS=%22cortex+composites%22&RS=%22cortex+composites%22>

**PCT/US2018/027984 (April 2018)**

- [https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2018195088&tab=DRAWINGS&\\_cid=P21-KEHVJN-97676-2](https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2018195088&tab=DRAWINGS&_cid=P21-KEHVJN-97676-2)

**PCT/US2016/060684 (November 2017)**

- [https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2017079661&tab=PCTBIBLIO&\\_cid=P21-KEHVLW-98252-3](https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2017079661&tab=PCTBIBLIO&_cid=P21-KEHVLW-98252-3)

Cortex Composites has also recently developed and patented a unique formula that protects the underlying properties of the GCCM material, specifically the cement compaction and air void volume to added water ratio to material strength for various values of each. The patent has been granted in the US and the company is seeking worldwide protection for the patent.

**US Patent 10,221,569 (March 2019)**

- <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=%2Fnetahhtml%2FPTO%2Fsearch-adv.htm&r=1&f=G&l=50&d=PTXT&p=1&S1=10,221,569&OS=10,221,569&RS=10,221,569>

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View our installation video here: <https://www.youtube.com/watch?v=yRB5fqQdRzM>



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