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(54) Title: MULTI-AXIAL INTEGRAL GEOGRID AND METHODS OF MAKING AND USING SAME

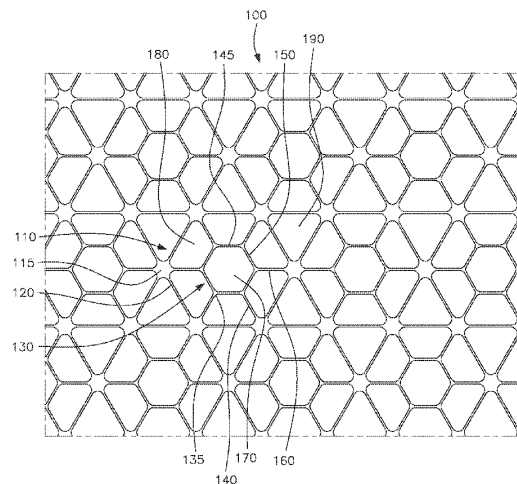


FIG. 2

(57) Abstract: A monolayer multi-axial integral geogrid suitable for stabilizing aggregate includes a plurality of interconnected oriented strands and partially oriented junctions forming a repeating pattern of outer hexagons having an array of openings therein. Oriented ribs extending inwardly from each of said outer hexagons support and surround a smaller inner hexagon having oriented strands thus forming a plurality of trapezoidal openings and a single hexagonal opening. The oriented strands and partially oriented junctions of the outer hexagons form a plurality of linear strong axis strands that extend continuously throughout the entirety of the geogrid and form additional triangular openings. The geogrid thus includes three different repeating geometric shapes. The inner hexagons preferably also can move up and down, out of the plane of the geogrid. The multi-axial integral geogrid thus provides a geometry that can better engage with, confine and stabilize a greater variety and quality of aggregates.

[Continued on next page]

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