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(54) Title: PRESSURE HOSE

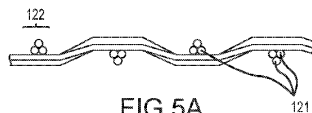


FIG. 5A

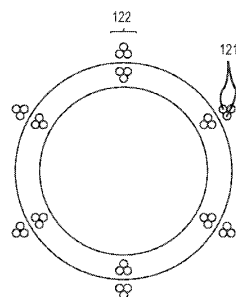


FIG. 5B

(57) Abstract: Described herein are embodiments of a pressure hose having an improved reinforcement layer. In some embodiments, the reinforcement layer of the pressure hose has a reinforcement volumetric ratio (RVR) of greater than or equal to 110%. The reinforcement layer can include a plurality of braided beams, with each beam comprising a plurality of ends. In some embodiments, the plurality of ends within a beam are arranged in a multi-layer orientation. In some embodiments, the number of ends and the end orientation within each beam is identical amongst all beams in the reinforcement layer. The shape, size, and arrangement of the ends within a beam can all be adjusted to increase the surface area to volume ratio and, correspondingly, the RVR of the reinforcement layer.

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