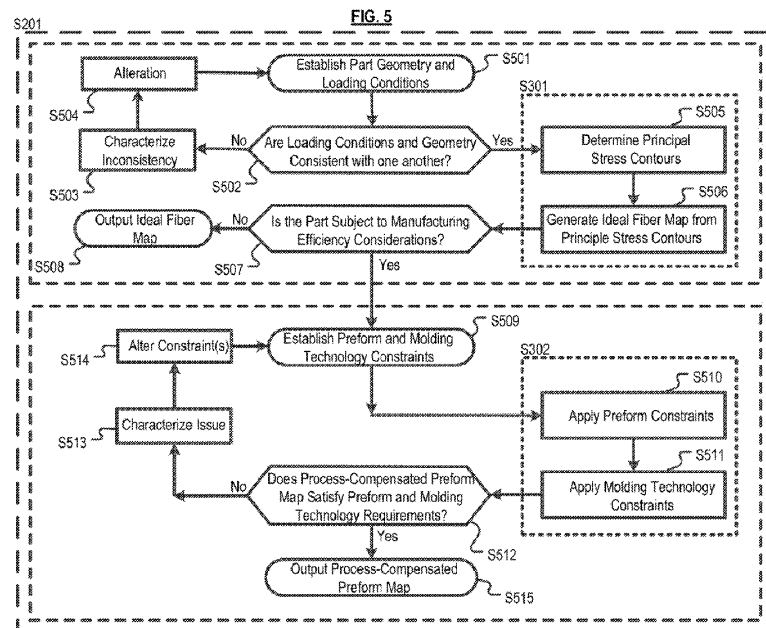




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(54) **Title:** METHOD FOR THE DESIGN AND EFFICIENT MANUFACTURE OF FIBER-COMPOSITE PARTS



(57) **Abstract:** A method for designing fiber-composite parts in which part performance and manufacturing efficiency can be traded-off against one another to provide an "optimized" design for a desired use case. In some embodiments, the method involves generating an idealized fiber map, wherein the orientation of fibers throughout the prospective part align with the anticipated load conditions throughout the part, and then modifying the idealized fiber map by various fabrication constraints to generate a process-compensated preform map.

[Continued on next page]

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