

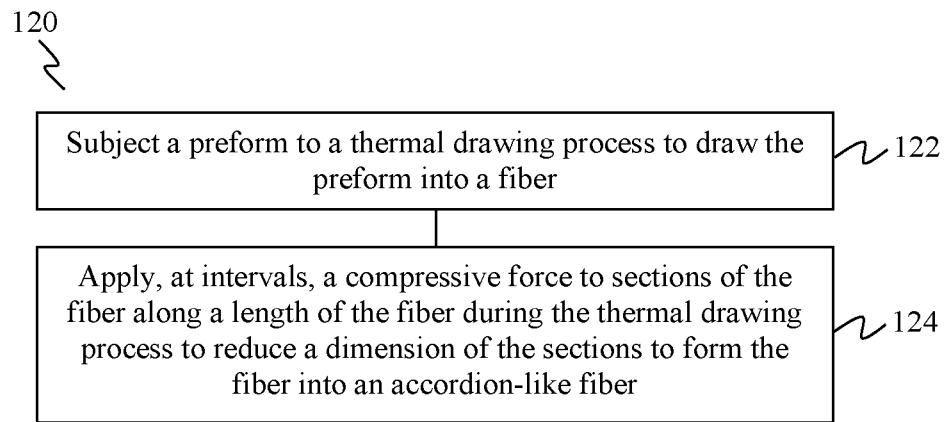


FIG. 1A

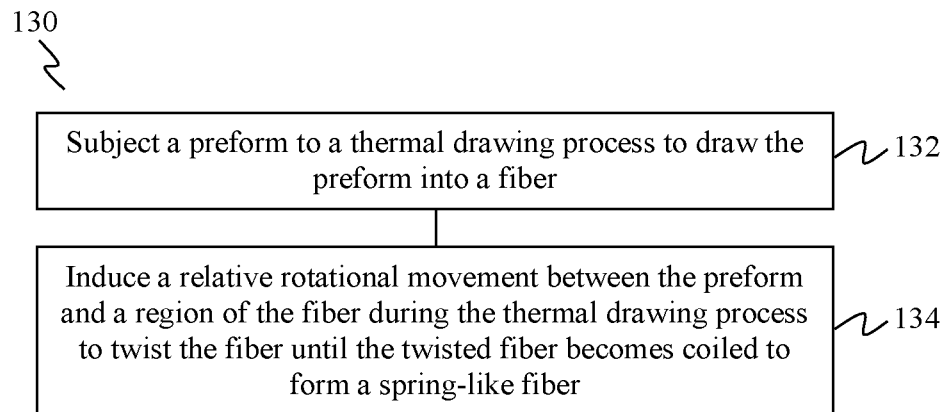


FIG. 1B

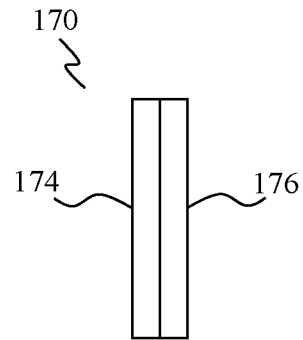
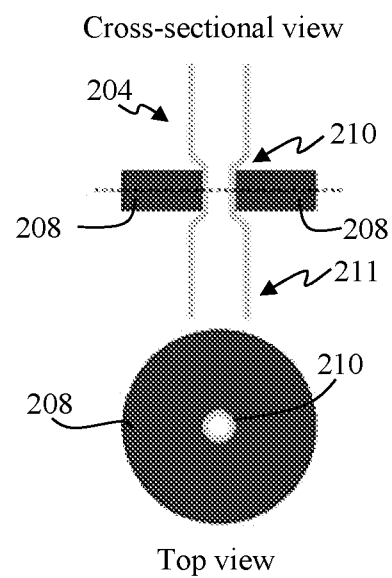
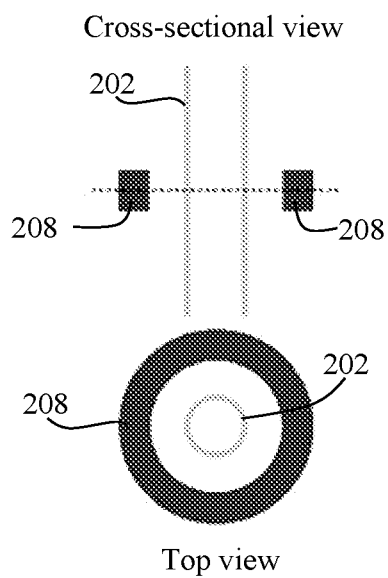
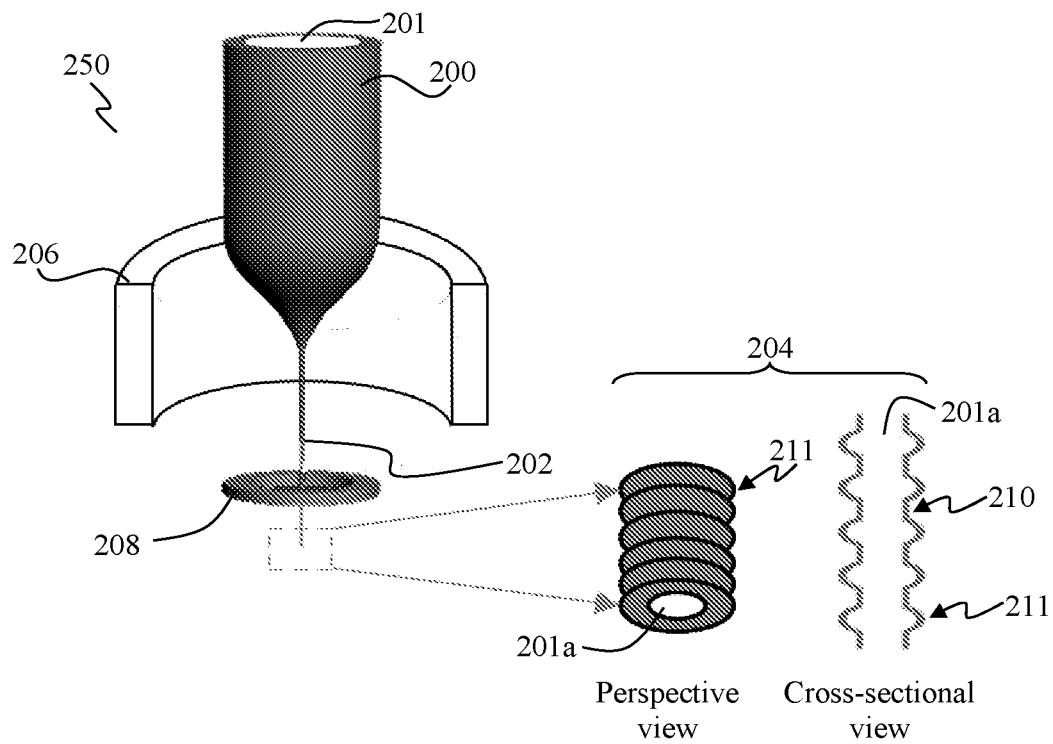


FIG. 1C

140
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Arrange at least one fiber actuator as described herein and at least one functional fiber configured to function as at least one of a sensor or an energy harvester to form the fiber bundle

FIG. 1D



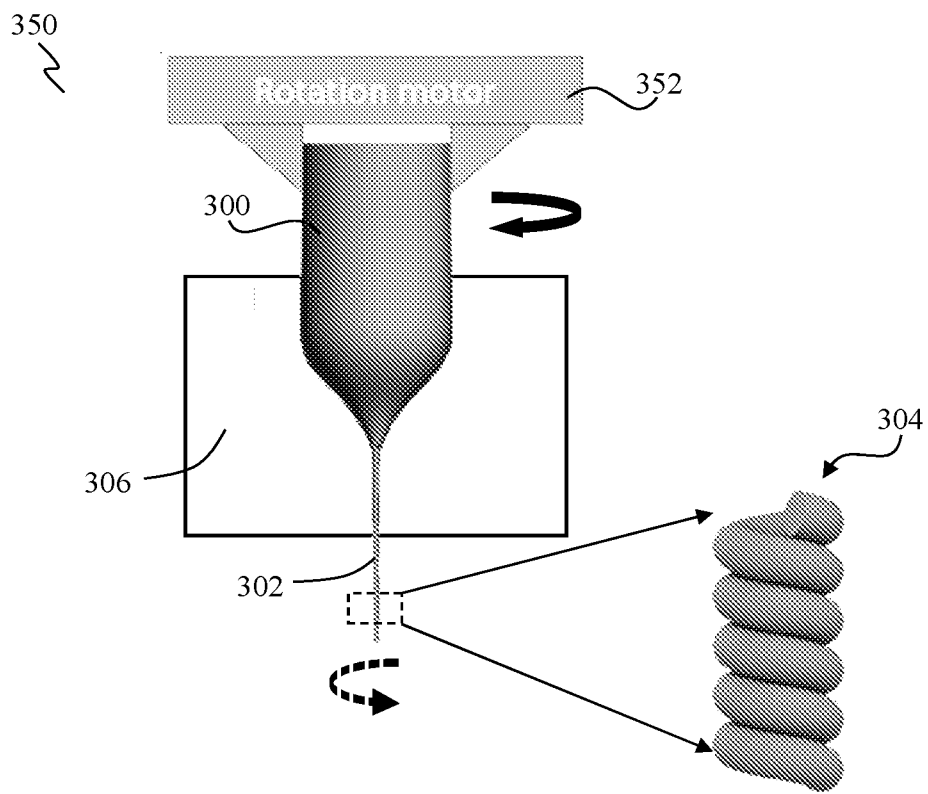


FIG. 3

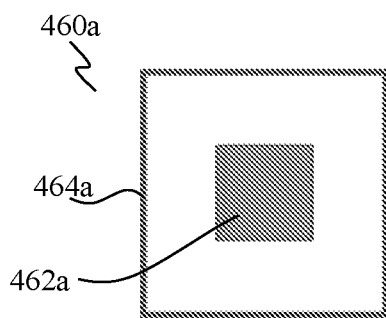


FIG. 4A

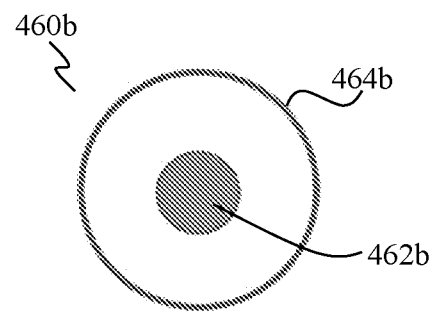


FIG. 4B

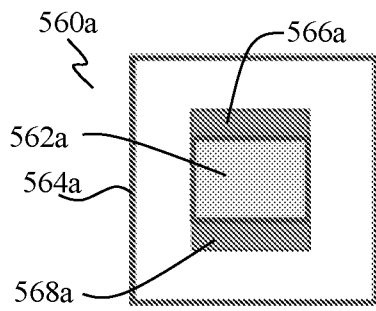


FIG. 5A

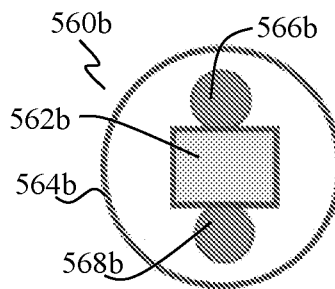


FIG. 5B

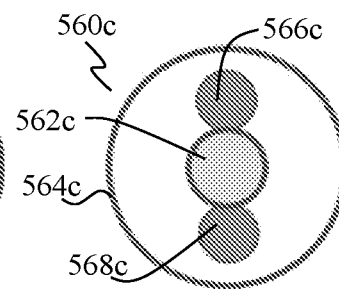


FIG. 5C

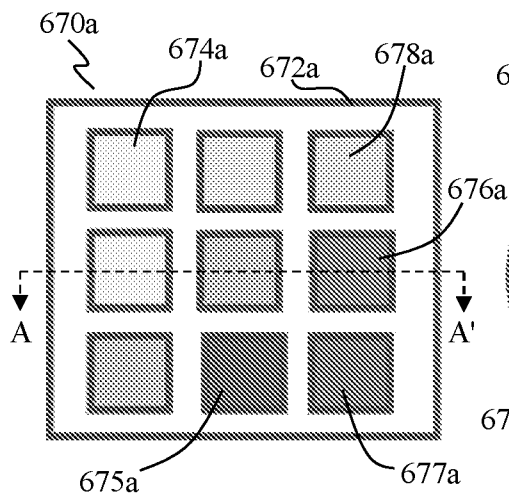


FIG. 6A

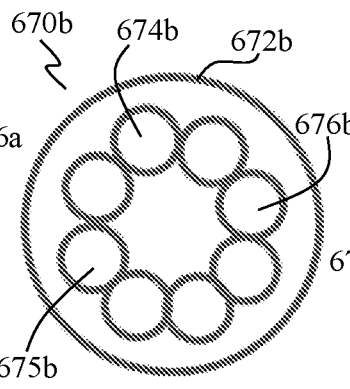


FIG. 6B

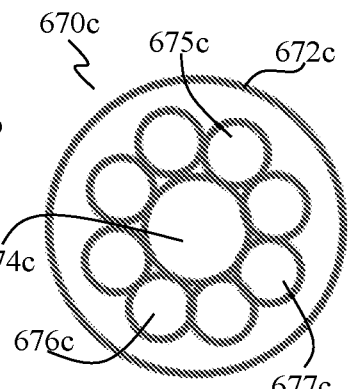


FIG. 6C

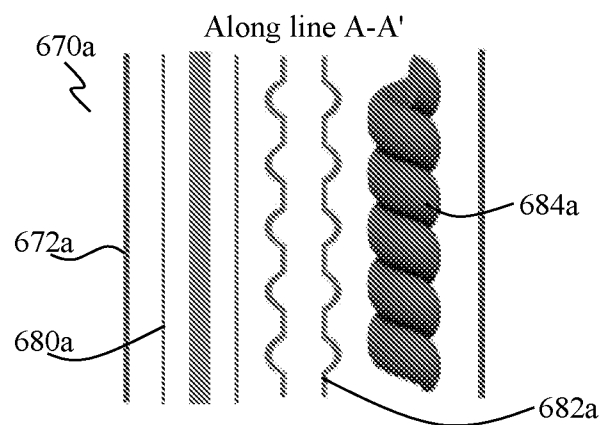


FIG. 6D

