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(54) **Title:** LOW-LOSS PLANAR WINDING CONFIGURATIONS FOR AN AXIAL FLUX MACHINE

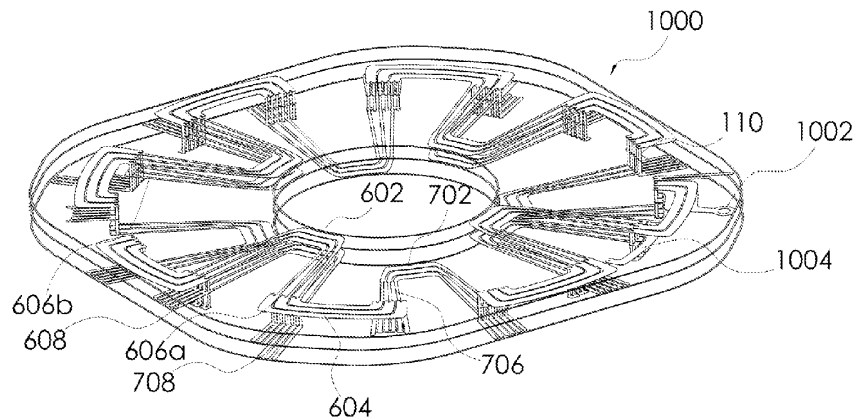


FIG. 11

(57) **Abstract:** A planar stator includes conductive traces forming windings for poles, and at least first and second conductive vias extending between first and second conductive layers, the first and second conductive vias being positioned to be located radially on a first side of an annular conductive region of an axial flux machine. The conductive traces include a first conductive trace in the first conductive layer and a second conductive trace in the second conductive layer. The first conductive trace includes a first end turn positioned to be located radially on a second side of the annular active region, the second side being opposite the first side. The second conductive trace includes a second end turn positioned to be located radially on the first side of the annular active region. The first conductive trace extends along a first path that begins at the first conductive via, passes through the first end turn, and ends at the second conductive via. The second conductive trace extends along a second path that begins at the second conductive via and passes through the second end turn. All of the conductive vias that interconnect the first and second conductive traces are positioned to be located radially on the first side of the annular conductive regions.

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