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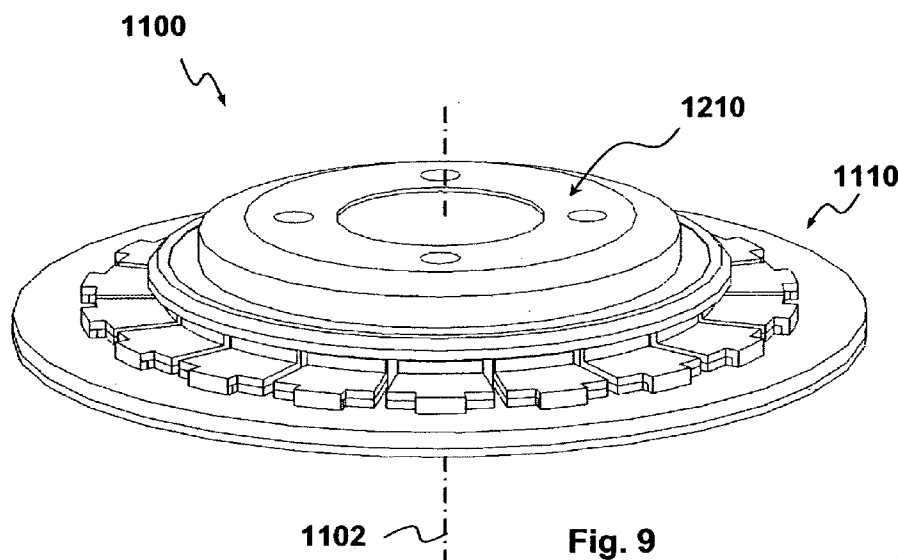


Fig. 9

(57) Abstract: A low profile spindle motor for supporting and rotating media disk or disks of a hard disk drive includes a plurality of stator teeth, a winding layer which may be formed by printed circuit board or the like, and a rotor. The plurality of stator teeth are disposed in an annular region surrounding an axis of rotation of the motor, and have projected ends for increasing the tooth area facing a magnet ring of the rotor. The winding layer has a plurality of windings disposed surrounding the axis of rotation. Each winding is coupled to one of the plurality of stator teeth. The magnet ring is positioned radially spaced apart and coplanar with the annular region. The magnet ring has magnetic poles annularly distributed to generate magnetic fluxes along radial direction. Spindle motor formed according to the invention has a low profile, improved performance and manufacturability.

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