OAK RIDGE NATIONAL LABORATORY
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External Split Field Generator

Disclosure Number

200802199

Technology Summary

This invention is a novel form of electric generator that uses the flux interactions between moving and stationary magnetic fields to produce twice the flux change per rotation of the prime mover. In conventional electric generators, the rotation of the prime mover produces one flux change per pole, if the poles are alternating in polarity. This invention uses the geometry of magnetic fields to produce two flux changes per pole, doubling the frequency. As a result of doubled frequency, the efficiency of the generator increases, offering higher power densities than the conventional design.

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